

105

THE
Canadian Society of Civil Engineers.

112 MANSFIELD ST., MONTREAL.

Incorporated in N. B. 1885. Re-incorporated in Dominion of N. B. 21st Feb. 1887.

100 Vols. CAP. 125.

CHARTER, BY-LAWS

AND

LIST OF MEMBERS.

1897.

Montreal.

PRINTED FOR THE SOCIETY
BY JOHN LOVELL & SON.

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(Established Feb. 24, 1887; Incorporated by Dominion Act, June 23rd, 1887.)

(50 VIC. CAP. 124.)

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CHARTER
OF
The Canadian Society of Civil Engineers.

(INCORPORATED JUNE 23RD, 1887.)

WHEREAS the persons hereinafter named have, by petition, set forth that it is desirable that they, together with such other persons as may be hereafter associated with them, be incorporated into a society by the name of "The Canadian Society of Civil Engineers," having for its objects and purposes to facilitate the acquirement and interchange of professional knowledge among its Members, and more particularly to promote the acquisition of that species of knowledge which has special reference to the profession of civil engineering, and further to encourage investigation in connection with all branches and departments of knowledge connected with the profession; and whereas it is expedient to grant the prayer of the said petitioners; therefore, Her Majesty, by and with the advice and consent of the Senate and House of Commons of Canada, enacts as follows:—

1. Thomas C. Keefer, Ottawa; Casimir S. Gzowski, Toronto; John Kennedy, Montreal; Henry T. Bovey, Montreal; Frederick N. Gisborne, Ottawa; Edmund P. Hannaford, Montreal; William T. Jennings, London; Samuel Keefer, Brockville; Louis Lesage, Montreal; Hugh D. Lumsden, Toronto; Alan Macdougall, Toronto; Henry F. Perley, Ottawa; Hurd Peters, St. John, New Brunswick; Peter A. Peterson, Montreal; Henry S. Poole, Stellarton, Nova Scotia; Henry N. Ruttan, Winnipeg; Collingwood Schrieber, Ottawa; Percival W. St. George, Montreal; and Herbert Wallis, Montreal, and all other persons who may hereafter be associated with them, shall be and they are hereby constituted a body politic and corporate, under the name of "The Canadian Society of Civil Engineers."

2. The said Society shall have power to acquire and hold all lands and property necessary and required, in order to carry out the objects and purposes for which incorporation is sought, provided that the annual value of the real estate, held at any one time for the actual use of the Society, shall not exceed five thousand dollars; and the said Society shall also have power to sue and be sued, and implead in their corporate name; and to make and pass regulations and by-laws for the direction and management of the said Society, including all rules that may be deemed necessary for the maintenance of the honour and dignity of the profession.

3. The said Society shall be governed by a President, Vice Presidents and Council, to be constituted in such manner as may be provided by the by-laws hereafter to be made, and the persons named in the first section shall constitute such Council, until such appointments are made.

4. A meeting of the said Council shall be held within six months after the incorporation of the Society, for organization, making by-laws, the election of officers, and the transaction of any other business that may arise.

5. The head office of the Society shall be in the city of Montreal, or in any such other place as may from time to time be determined by a vote of two-thirds of the members of the Society.

BY-LAWS

OF

The Canadian Society of Civil Engineers

NAME AND OBJECTS.

1. This Society shall be called "The Canadian Society of Civil Engineers." Name of Society.

2. The term "Civil Engineer," as used in this Society, shall mean Definition of Civil Engineers all who are, or have been, engaged in the designing or constructing of railways, canals, harbours, lighthouses, bridges, roads, river improvements and other hydraulic works, sanitary, electrical, mining, mechanical or military works, or in the study and practice of navigation by water or air, or in the directing of the great sources of power in nature for the use and convenience of man.

3. The objects of this Society shall be (1) to facilitate the acquirement and interchange of professional knowledge among its members, Objects of Society. and (2) to encourage original investigation.

CONSTITUTION AND MEMBERSHIP.

4. The Society shall consist of Honorary Members, Members, Associate Members, Associates and Students. Composition of Society. Honorary Members shall not be subject to fees or dues, and shall not be entitled to vote, unless they have previously been Members, in which case they shall retain the right to vote and hold office. Members and Associate Members shall be styled "Voting Members." Associates and Students shall possess all the rights and privileges of Members and Associate Members, except the right to vote or to hold any office but that of Librarian.

Titles of
Membership.

5. Any Honorary Member, Member, Associate Member, Associate or Student, having occasion to designate himself as belonging to the Society, shall state the class to which he belongs, according to the following abbreviated forms :—Hon. M. Can. Soc. C. E., M. Can. Soc. C. E., A. M. Can. Soc. C. E., A. Can. Soc. C. E., Stud. Can. Soc. C. E.

QUALIFICATION FOR ELECTION AS MEMBERS.

Qualification
of Honorary
Members.

6. Honorary Members shall be distinguished men, eminent in engineering or kindred sciences.

Qualification
of Members.

7. Every candidate for election as Member must be at least thirty years of age, and must have been engaged in some branch of Engineering for at least ten years, which period may include apprenticeship, or pupilage in a qualified Engineer's office, or a term of instruction in some school of Engineering recognized by the Council. The term of ten years will be reduced to eight years in the case of any candidate who has graduated with honours in his Engineering course. In every case the candidate must have had responsible charge of work for at least five years, and this not merely as a skilled workman, but as an Engineer qualified to design or direct Engineering works.

Qualification
of Associate
Members.

8. Every candidate for election as an Associate Member must have been engaged in some branch of Engineering for at least five years, which period may include apprenticeship or pupilage in a qualified Engineer's office, or a term of instruction in some school of Engineering recognized by the Council. In every case the candidate must have held a position of professional responsibility for at least two years.

Qualification
of Associates.

9. Every candidate for election as Associate shall be one who is not a Civil Engineer by profession, but whose pursuits, scientific acquirements or practical experience qualify him to co-operate with Engineers in the advancement of professional knowledge.

Qualification
of Students.

10. Every candidate for election as Student must be at least sixteen years of age, and must present a certificate of having successfully passed an examination, equivalent to the final examination of a High School or the matriculation of an Arts or Science course, and must be pursuing a recognized course of instruction in some branch of Engineering, or be receiving a practical training in the profession. He shall not remain in the class of Students more than nine years.

MANNER OF ELECTION OF MEMBERS.

11. Honorary Members must be nominated by a unanimous vote of the Council, one month's notice having been given to the members of the said Council of the names of the nominees, and of the meeting at which it is proposed to make the nomination. The election of Honorary Members shall be by vote of the Members of the Society, given in the same manner as in the election of Members. The number of Honorary Members shall not, at any one time, exceed twenty.

12. The Secretary shall notify by letter the Honorary Member of his election, and shall request him to notify the Society of his acceptance of the same within six months. Failing such acceptance his election will be void.

13. Proposals for admission to the Society as Member, Associate Member, or Associate (Form A in the Appendix), or for a transfer from one class to a higher (Form B in the Appendix), shall contain a statement over the candidate's signature, of his age, residence, and the nature and term of his professional service, also an agreement to conform to the regulations of the Society if elected or promoted. The applicant shall give as references at least five Voting Members, from whom the Council shall obtain satisfactory evidence in writing that they personally know the candidate and that he is worthy of acceptance or promotion. The proposals for Students shall be signed by the applicant and indorsed by one Voting Member.

14. Elections for any class, or for transfer, shall be by vote of the members taken by letter ballot according to a form to be prescribed by the Council, and such ballot shall be taken at the first ordinary meeting, held after the lapse of at least twenty-five days from the date of mailing the notification. If ten per cent. of the votes cast be negative, the candidate shall be excluded, and in such case no record of the transaction shall be kept. Provided, however, that should the Council require that an examination be passed by any candidate for admission into the Society, or for transfer from one class into another, or should any candidate request to be admitted or transferred by examination, then the Council may admit or transfer the candidate thus, provided he pass such examination as the Council may prescribe.

15. On the election of a candidate, he shall be immediately notified by the Secretary (Form C in the Appendix). On receipt of the notification he must subscribe to the Constitution and By-Laws (in the

terms set forth in Form D in the Appendix), and pay to the Treasurer the regular fees (see Article 18) before he can be entitled to the privileges of membership. Should he fail to do so within six months from the date of the notification of his election, he shall cease to be a member. Membership shall date from the day of the election.

Certificates of
Membership.

16. All certificates of membership issued to members are the property of the Society, and must be returned by any member who has resigned, or whose name has been removed from the roll of membership, within one week of his receipt of notice of such removal or acceptance of resignation.

EXPULSION.

Expulsion.

17. Upon the request of ten or more Members, that, for causes specified, a Member of the Society should be expelled, the Council shall consider the matter, and if there should be sufficient reason, shall advise the said Member that his resignation will be accepted. He may, upon demand, receive a copy of the charges against him, and present a written defence. Two months after such action on his part, the Council shall finally consider the case, and, if resignation has not been tendered, or a satisfactory defence made, will then notify the Member that he will be expelled in one month, unless he elects to appeal from this decision, in which case his appeal shall be voted on by letter ballot.

Neither the Council nor the members bringing the charge shall vote. If ten per cent. of the votes are for expulsion, the Member shall be expelled, and the Council shall notify the said Member and the Society of the result. In case no appeal is made, the Council shall expel the said Member, and notify him and the Society of his expulsion, and such notification shall in any event be the only notice, public or private, taken of the matter.

DUES.

Definition of
resident and
non-resident
Members.

18. Members, Associate Members, Associates and Students who reside within 50 miles of the headquarters of the Society shall be deemed resident; those who reside beyond the limit of 50 miles shall be deemed non-resident.

Annual Fees.

19. Each resident Member shall pay \$10.00, and each non-resident Member, \$8.00 per annum. Each resident Associate Member shall pay \$8.00, and each non-resident Associate Member, \$6.00 per annum. Each Associate shall pay \$10.00 per annum. Each Student shall pay \$2.00 per annum.

20. Every person admitted to the Society shall be liable for all dues, ^{Resignation.} until he shall have signified to the Secretary, in writing, his desire to withdraw, when, if his dues have been fully paid up, his name will be omitted from the list of membership.

21. All annual subscriptions shall become due on the first day of ^{Annual Fees due on Jan. 1st.} January in each year, for the year then commencing, but no Member shall be considered in arrears for any year until after the first day of April of that year. It shall be the duty of the Secretary to notify each Member of the amount due for the ensuing year, at the time of giving notice of the annual meeting.

22. No Member or Associate Member whose dues are in arrears shall ^{Members in arrears have no vote.} be allowed to vote. Any person admitted into the Society, who shall refuse to pay any dues, or who shall neglect the same for six months after notice thereof shall have been issued (Form C in the Appendix), may, by a vote of the Council, be struck off from the roll of membership.

23. Any Member who, for non-payment of dues, has been struck off ^{Re-instatement on roll of Membership.} the roll of membership, may again, if the Council approves, join the Society on payment of all arrears, and on payment of such entrance fee as may hereafter be agreed upon.

24. The amount of the annual dues, to be paid for the support of ^{Change in amount of Annual Fees.} the Society, may be changed from time to time at the Annual General Meeting of the Society, provided that notice of intended action thereon shall have been given to the Members two months previously by circular. No alteration in the amount of said fees shall apply to the fiscal year during which it is made, but shall take effect on and after the first day of January next succeeding the date of such alteration. Those who become resident or non-resident by removal of residence shall be subject to the dues of the class to which they belong at the date of the Annual Meeting, as may be shown by the records of the Society, or by a written notice to the Secretary.

25. Any Member may compound his fee, and becomes a Life Member ^{Compounding of Fees.} on payment of a sum of \$150.00, which is to be invested by the Council, the interest only to be used for current expenses.

26. The Council may, for sufficient cause, exempt from payment of ^{Exemption from payment of dues.} annual dues any Member distinguished in his professional career, who, from ill health, advanced age, or for other good reason assigned, does

not continue to carry on a lucrative practice, and is unable to pay such dues. The Council may remit the whole or part of any arrears, or accept in lieu thereof desirable additions to the Library and Museum.

OFFICERS.

Officers.

27. The officers of the Society shall consist of a President, three Vice-Presidents, a Treasurer, a Secretary, a Librarian ; the Past Presidents, who shall be styled Honorary Councillors ; and fifteen Councillors. Of the fifteen Councillors, not more than three may be Associate Members.

COUNCIL.

Composition of Council.

28. There shall be a Council, consisting of the President, Vice-Presidents, Treasurer, Secretary, Honorary Councillors and Councillors, and of this Council five shall constitute a quorum. The Members of Council shall retain their position until their successors have been appointed.

MANAGEMENT.

Chairman of Society meeting.

29. The President, or, in his absence, one of the Vice-Presidents, or, in their absence, a Member of Council, shall preside at all meetings of the Society. In the event of the absence of the President and of all the Vice-Presidents and Members of Council, the meeting may select any Member as Chairman.

Duties of Secretary.

30. The Secretary shall keep an accurate record of the transactions of the Society and of the Council. He shall also keep a correct roll of Members' names, with their addresses and dates of their admission. He shall conduct the correspondence of the Society, give notice of all meetings, supervise the printing, and, under the direction of the Council, edit the transactions of the Society.

Duties of Treasurer.

31. The Treasurer shall have charge of the funds of the Society, shall receive all money and pay all accounts and orders approved of by the President, or by the Chairman of Finance or Library Committee. He shall also deposit and invest the funds of the Society in its name, and always with the approval of the Council. All accounts exceeding \$10 shall be paid in cheques, which shall be signed by the Treasurer and countersigned by one member of the Finance Committee.

Duties of Librarian.

32. The Librarian shall take charge of the Library of the Society, shall mark all books with the name of the Society, and shall number and record them in a catalogue. He shall also conform to such regulations as may be prescribed by the Library Committee.

33. The Council shall have general supervision of the affairs of the Society, shall prepare by-laws, shall approve and classify candidates before submitting their names to ballot, shall fill up vacancies as they occur amongst its members, shall apply funds in the treasury, shall recommend the amount of appropriations for specific purposes, and shall present a report on the affairs of the Society, embracing the report of the Treasurer, at the Annual Meeting. In no case shall the Council incur any expenditure for extraordinary purposes unless previously authorized to do so at the Annual Meeting or at a special general meeting.

Duties of Council.

The Council shall meet as often as the business of the Society may require.

Meetings of Council.

34. The Council shall meet within one week after its election, and shall appoint, firstly, a Standing Committee of five on Finance, which shall have supervision of accounts of the Society, shall audit the books of the Treasurer, and shall certify to his Annual Report; and, secondly, a Library Committee of five, which shall have supervision of the rooms, and shall apply to the purchase of books, or other articles of permanent value to the Society, such sums as may be granted for that purpose.

Composition and Duties of Standing Committees.

Finance Committee.
Library Committee.

NOMINATION AND ELECTION OF OFFICERS.

35. A Nominating Committee of eight Voting Members, elected annually, and of the four last surviving Past Presidents (or such smaller number as there may be) shall draw up a list of names of such Voting Members as, in its opinion, are qualified to fill the offices of President, Vice-Presidents, Treasurer, Secretary, Librarian and Councillors for the ensuing year, and who shall, previously to their names being entered on the list, have signified to the Committee, in writing, their willingness to accept their several nominations.

Nomination and Election of Officers.

This list shall contain at least thirty-four names of Members, viz. : one for President, five for Vice-Presidents, one for Treasurer, one for Secretary, one for Librarian, and twenty-five for Councillors; and of the twenty-five nominated as Councillors, at least seven must be resident at headquarters.

The list shall be signed by a majority of the Nominating Committee.

36. The Nominating Committee shall forward this list to the Council not later than the 1st of October of the current year, and a copy of the list shall be sent by the Secretary to each Voting Member of the Society not later than the fifteenth of the said October.

Dates on which list must be submitted.

Additional
nominations.

37. Any twelve Voting Members, of whom not more than four may be Associate Members, may present to the Council, on or before the fifteenth of November of the current year, a list of names proposed by them for officers, such list to be accompanied by the nominees' acceptance of nomination, in writing. A copy of such list shall also be sent by the Council to each Voting Member not later than the following first of December.

Name of
Nominators
to be printed
on list.

38. The list issued by the Nominating Committee shall be headed as such ; and the names of the nominators of any list, other than that issued by the Nominating Committee, shall be printed at the head of such list as the nominators of the same.

Withdrawal
of consent.

39. Should any Member, who has consented to be nominated for any office, wish to withdraw his consent, he must do so in writing not later than the fifteenth of September of the current year.

Ballot for
Election of
Officers.

40. The officers shall be elected by a majority of votes taken by sealed letter ballot. This ballot shall be opened and declared at the Annual Meeting, and the report of the scrutineers shall give the names of all members who have been elected and the number of votes cast for each. In case two or more persons shall equally have received the highest number of votes, the choice shall be made from amongst them by ballot at the meeting.

Persons
elected for
two Offices.

40a. Any member may vote for the same person for the offices of President, Vice-President and Member of Council, provided always that should any member be elected to more than one office, he must choose which he shall hold, and the vacancy arising from his declining to hold the extra office or offices shall be filled by the member or members who shall have received the next highest number of votes, after those already elected to said office or offices.

Appointment
of Scrutineers.

41. The scrutineers of the ballot at the Annual Meeting for the election of officers and of the elective members of the Nominating Committee may be named, with the consent of the meeting, by the Chairman. If not thus named they shall be elected by ballot at the meeting.

ELECTION OF THE NOMINATING COMMITTEE.

Nominating
Committee.

42. The Secretary shall send to all Voting Members, at the same time as he sends the list of Members nominated for office, a form of ballot (Form Z) for the election of the elective members of the

Nominating Committee. The Voting Members shall elect representatives on the Nominating Committee as follows: those resident in Newfoundland, Nova Scotia, Prince Edward Island and New Brunswick, one member; those resident in the Province of Quebec, two members; those resident in the Province of Ontario, three members; those resident in Canada to the west and north-west of the Province of Ontario, one member; and those not living in Canada or Newfoundland, one member who shall be resident at headquarters.

It shall not be necessary for any member of the Nominating Committee to reside in the district he represents.

43. The ballot for election of members of the Nominating Committee shall be returned to the Secretary of the Society with the ballot for election of officers, and shall be examined and reported on by scrutineers appointed at the same time and in the same manner as the scrutineers for the ballot for the election of Officers. Ballot for Nominating Committee.

The Member or Members for each district who shall receive the greatest number of votes shall form the elective part of the Nominating Committee, provided that in case any Member with a majority of votes refuse to act, the Member coming next in order by majority of votes shall be elected, provided, however, that should the full number of the Committee still fail to be elected, the deficiency shall be supplied by ballot at the Annual Meeting.

The Committee shall elect a Chairman within sixty days of their election, by each member sending his vote sealed with his name outside the envelope, which shall be endorsed "Vote for Chairman," to the Secretary of the Society, whose duty it shall be, when he has received all the votes, to lay the same before the Council, which shall open the ballot, and notify (through the Secretary) the member of the Committee who has been elected Chairman. Should the Committee fail to elect a Chairman within the sixty days above mentioned, the Council shall make the appointment and notify the Committee thereof. Election of Chairman.

MEETINGS.

44. The meetings of the Society shall be as follows:—

(A.) The Annual Meeting for the election of officers shall be held on the second Tuesday in January, or on such other day in January as the Council may direct. The Council shall lay before the meeting a report of the standing of the Society, with a statement by the Annual Meeting. Annual Report.

Treasurer, verified by the Committee on Finance, of the funds of the Society, and the receipts and payments during the year ended on the 31st December preceding. Also a list of the meetings held by the Council and the names of those present at each meeting. At such annual meetings, fifteen Voting Members shall constitute a quorum. A notice of twenty-one days shall be required for an Annual Meeting.

Special
General
Meeting.

(B.) Special General Meeting of the Society may be called by order of the Council for the transaction of special business. The quorum at a Special General Meeting shall be fifteen Voting Members.

A notice of twenty-one days shall be given for a Special General Meeting.

Ordinary
Meeting.

(C.) Ordinary meetings of the Society shall be held at eight o'clock in the evening, on every alternate Thursday during the months of October, November, December, January, February, March, April and May, commencing with the second Thursday in October; but it shall be in the power of an ordinary meeting to make such changes in these dates as may be deemed advisable.

Order of
Business.

The business of an ordinary meeting shall be transacted as nearly as possible in the following order:—

(a.) The minutes of the preceding meeting to be read, approved and signed by the Chairman and Secretary.

(b.) Business arising out of the minutes to be discussed.

(c.) Appointment of Scrutineers and opening of ballot for election of Members.

(d.) Candidates for admission into the Society to be announced.

(e.) Communications from the Council to be considered.

(f.) New business to be proposed and notices of motion to be given.

(g.) Original papers to be read and discussed.

Students
Meetings.

(D) Students' meetings shall be held at eight o'clock in the evening, at such dates as shall be determined by Council, and of which due notice shall be given.

Changes in
rules or special
expenditure
requires
notice of
motion.

45. Changes in the rules and regulations of the Society, and new rules or regulations shall not be voted on or adopted, nor shall the expenditure of any funds, for which a vote is necessary, be authorized, unless notice of motion has been given not less than four weeks previously to such vote being taken, so that the Secretary shall have time to notify all Voting Members.

PAPERS.

46. All papers must be forwarded to the Secretary of the Society, ^{Papers.} when they will be examined by the Council, and if deemed of sufficient interest, copies shall be made and sent to every branch of the Society. Such papers shall be read and presented for discussion at all branches at the same time as at the headquarters of the Society, or as soon thereafter as may be practicable. A report of the discussion at the branches shall be forwarded to the Secretary of the Society within one week after the day fixed for the reading by the Society.

47. The papers shall be the property of the Society, and no publica- ^{Papers the property of the Society.} tion of any papers or discussion shall be made, except by the Society or with the permission of the Council.

AMENDMENTS TO BY-LAWS.

48. New by-laws or alteration or repeal of existing by-laws may be ^{Mode of} made in the following manner. Notification of proposed new by-laws ^{Amending} or of alteration or repeal of existing by-laws shall be given to the Council, signed by at least ten Voting Members, not later than three months before the date of the Annual Meeting. ^{By-Laws.}

The Council shall issue notice of the proposition, specifying the particular new by-law or alteration or repeal of any existing by-law which may be thus recommended, and submit the same to vote by letter ballot, not less than two months before the Annual Meeting, the ballot to be taken on or before the date of the Annual Meeting, and not less than two thirds of the votes cast shall be required to effect any change. The Council may also propose new by-laws, or alterations, or repeal of existing by-laws, and may submit the same to vote by letter ballot as above.

BRANCHES.

49. A local branch of the Society may be established under the ^{Branches.} authority of the Council at the request of not fewer than ten Voting Members, who are desirous of forming themselves into such local branch in any place not less than one hundred miles from the headquarters of the Society, or from any existing branch. The members of such branches shall consist of those who join from time to time. The establishment of a branch shall not release members from any of their obligations to the Society, whether as regards fees or membership in any class.

Name of Branches.	50. Local branches, although formed strictly of Members of the Society, may be distinguished by the name of their locality, as, for example, "The.....Branch of the Canadian Society of Civil Engineers."
Officers of Branches.	51. The officers of local branches shall be a Chairman and Secretary-Treasurer, who shall be elected by the members of the Branch.
Election of Members of Local Branches	52. All classes of Members of local branches must have been elected by the Society in the usual way, and in no case shall their Members be added to locally or otherwise than in the regularly prescribed way.
Fees of Members of Branches.	53. Members of a local branch shall pay to the Society the fees of a resident Member of the Society, and the Society shall remit to the branch, on application of its Secretary-Treasurer, the difference between a resident and non-resident's fees. The Society shall not be liable for any expenses incurred by a Branch.
Meetings of Branches.	54. The regular meetings in all branches shall be held on the same date as the corresponding meetings of the Society at headquarters.
Rules for Branches.	55. In by-laws, rules of order, etc., and in particulars not specially referred to, the branches shall conform to the methods and rules adopted by the Society.

CODE OF ENGINEERING ETHICS.

Duty of the Engineer to his Client.	56. Every member of the Society should perform the work he undertakes to do to the best of his ability and in the true spirit of his engagement, feeling it to be his duty to present all ascertained facts in their true light.
The Client's Obligation to the Adviser.	57. The Civil Engineer has a right to expect from his client the same consideration and deference to his opinion as is by their clients accorded to the members of other professions—Law and Medicine, for example—and without which the adviser should decline to advise. The surest way for the Engineer to obtain such necessary consideration and deference from the public will be found in his manner of carrying himself.
Mutual Relations of Chief and Assistant.	58. The Assistant Engineer must loyally obey and support his Chief, to whom it will be his duty to report directly on all matters relating to the work on which they may be jointly engaged. His report should be full and explicit on all important points, and exact to the best of the Assistant's knowledge and belief, cloaking nothing, even though going

to show that previous reports had been inaccurate or not duly weighed, in some particulars affecting the well-being of the business in hand.

59. The Assistant Engineer is entitled to look to his Chief for, and to receive from him, advice for his guidance in the proper performance of his duties, and, where right, to expect his support in matters in dispute between him (the Assistant) and his subordinates, or between him and the contractors working under him. He is also entitled to the aid of the Chief Engineer's professional experience or counsel where unlooked for or extraordinary difficulties present themselves, or changes of original plan may be called for in the work on which they are associated, so that responsibility may be fairly apportioned between them.

60. It is the duty of both Chief and Assistant, each in his department, to study proper economy in the doing of the work, the management of which they have undertaken, and in every way consistent with the maintaining of the good character of the work to make the client's interest the guiding object. Duties of Chief and Assistant.

61. The Engineer may legitimately suggest experiments with a view to improvement, whether in methods of doing the work which he oversees, or for raising its character; but such experiments should only be undertaken with the full consent and co-operation of the party, whether client or contractor, on whom the expense may fall, and on the understanding that to them will accrue all pecuniary benefit from the success of the experiment. Experiments in Methods of Work.

62. It shall be considered unprofessional for any member of this Society to seek the position of an expert to report on any work that is in charge of a recognized Engineer. Unprofessional Conduct.

63. It shall be the duty of any Engineer, before examining any work with a view to report thereon, to give the Engineer due notice before going on with the investigation, in order that he may have every facility to explain and sustain his methods of carrying on the work in question.

64. Interchange of professional assistance between members, as tending to promote fraternal intercourse and mutual good-will, is not to be discouraged, but neither is it to be considered obligatory on a member to respond to the request of a fellow-member for professional counsel or assistance. Service so rendered must be entirely voluntary on the part of the member whose aid is sought. Professional Services of Engineers to each other.

Pecuniary
Matters,
Advertising,
etc.

65. The Civil Engineer may, consistently with professional status, take out patents for new inventions or for improvements on old ones, and may sell or otherwise dispose of the patents for his own advantage. He may undertake surveys and the engineering of works by contract, or he may take contracts for the construction of works on a percentage of their cost. Advertising with a view to attracting business should, where resorted to, be as far as possible free from egotistic or self-laudatory references, and expressed in language not derogatory to the dignity of the profession.

Duties of the
Engineer to the
Public.

66. The Civil Engineer whose advice is sought in respect to the usefulness, practicability and cost of a work should, before expressing his opinion, obtain reliable information on all points involved in the matter submitted to his judgment, including the probable paying capacity of the contemplated undertaking. He must be cautious how he recommends large preliminary outlay ; should avoid connecting himself with schemes or projects of merely speculative character, always bearing in mind that his professional reputation will be to a great extent judged by the inherent merits and commercial value of the undertakings with which his name may come to be associated.

APPENDIX.

FORM A.

The Canadian Society of Civil Engineers.

The proposal for MEMBER, ASSOCIATE-MEMBER, ASSOCIATE, or STUDENT † shall contain a statement, over the *candidate's signature*, of his *age, residence*, the nature and term of his *professional service*, and that he will conform to the requirements of membership if elected.

STATEMENT.

I, _____
residing at _____
being desirous of admission into the Canadian Society of Civil Engineers, beg to submit the following as my professional record.

I was born at _____ on _____ 18

(The Candidate must here insert a concise history, with dates, of his professional career, specifying the positions he has held, the nature and extent of the works upon which he has been engaged, and his present profession and occupation. Proper names and names of railroads must be written in full.)

I will conform to the requirements of the class to which I may be elected.

(Signature) _____

(P.O. Address) _____

Date _____ 189

On the grounds stated, and because WE BELIEVE HIM FROM PERSONAL KNOWLEDGE to be in ALL RESPECTS A PROPER PERSON to be admitted into the Canadian Society of Civil Engineers, WE HEREBY RECOMMEND FOR ELECTION

Mr. _____ of _____

To be signed by at least five Voting Members of the Canadian Society of Civil Engineers.

† One signature sufficient for Student. By-Law 13.

FORM B.

The Canadian Society of Civil Engineers.

The proposal for TRANSFER FROM ONE CLASS TO A HIGHER shall contain a statement, over the *candidate's signature*, of his *age, residence*, the nature and term of his *professional service*, and that he will conform to the requirements of the class to which he may be transferred.

STATEMENT.

I,
residing at.....
being.....
of the Canadian Society of Civil Engineers, beg to submit the following
as my professional record, and request to be transferred to the class of
.....

I was born at.....on.....18.....

(The Candidate must here insert a concise history, with dates, of his professional career, specifying the positions he has held, the nature and extent of the works upon which he has been engaged, and his present profession or occupation. Proper names and names of railways must be written in full.)

I will conform to the requirements of the class of

(Signature).....

(P.O. Address).....

Date.....189

On the grounds stated, and because WE BELIEVE HIM ^{FROM} ^{PERSONAL} KNOWLEDGE to be properly qualified in ALL RESPECTS, WE WHOSE NAMES ARE HEREUNTO SUBSCRIBED SUBMIT to the Council of the Canadian Society of Civil Engineers the PROPRIETY OF TRANSFERRING FROM THE CLASS OF
.....TO THE CLASS OF

Mr. of

To be signed by at least five Voting Members of the Canadian Society of Civil Engineers.

FORM C.

The Canadian Society of Civil Engineers.

MONTREAL, _____ 189

SIR,

I have the honor to inform you that having been proposed by Messrs. _____

you were duly elected _____

of THE CANADIAN SOCIETY OF CIVIL ENGINEERS, on the _____ day of _____

According to the regulations of the Society, you are required as _____ to pay \$ _____ being your subscription for the current year, and to return the accompanying Form D, with your signature, within six months of the date of your election; otherwise your election will be cancelled. These conditions being complied with, you will be considered as admitted into the Society, when any publications or notices to which you are entitled will be forwarded according to your directions.

I beg to call your attention to Section 22 of the By-Laws.

I am, Sir,

Yours, &c.,

Secretary.

FORM D.

The Canadian Society of Civil Engineers.

I, the undersigned, being elected _____ of THE CANADIAN SOCIETY OF CIVIL ENGINEERS, agree to be governed by the Charter and By-Laws of the Society. I will promote the objects of the Society as far as shall be in my power, and attend the meetings thereof as often as I conveniently can. Provided that whenever I shall signify in writing to the Secretary, for the time being, that I am desirous of withdrawing my name therefrom, I shall (after the payment of any arrears which may be due by me at that period) be free from this obligation.

I also engage to present to the Society an original communication, a drawing, plan, or model of engineering interest, or some scientific work for the library, within the space of twelve months from the date of my election.

(Signature) _____

(P.O. Address) _____

Date _____ 189

FORM Z.

The Canadian Society of Civil Engineers.

BALLOT FOR THE ELECTION OF THE ELECTIVE MEMBERS
OF THE NOMINATING COMMITTEE FOR THE YEAR 189 .

District of _____

Write in above "Maritime Provinces," "Quebec," "Ontario," "North-West Provinces," or "outside of Canada and Newfoundland."

(Write in the above space the name or names of members whom you wish to represent your district in accordance with By-Law No. 42. Enclose in the envelope marked "BALLOT FOR NOMINATING COMMITTEE," and return to the Secretary along with the Ballot for the Election of Officers.)

[Extract from By-Law No. 42.]

"The voting members shall elect representatives on the Nominating Committee as follows:—Those resident in Newfoundland, Nova Scotia, Prince Edward Island and New Brunswick, one member; those resident in the Province of Quebec, two members; those resident in the Province of Ontario, three members; those resident in Canada to the West and North-West of the Province of Ontario, one member; and those not living in Canada or Newfoundland, one member, who shall be resident at headquarters."

LIST OF MEMBERS

OF THE

Canadian Society of Civil Engineers.

FEBRUARY 1st, 1897.

NOTICE.

It is particularly requested that changes of address be immediately communicated to

The Secretary,

Canadian Society of Civil Engineers,

112 Mansfield St., Montreal.

N.B.—Names of deceased members are in *italics*.

T H E
Canadian Society of Civil Engineers.

Established February 24th, 1887—Incorporated by Dominion Act
June 23rd, 1887, 50 Vict., Cap. 124.

Council :

1897.

PRESIDENT.

THOMAS C. KEEFER, C.M.G., PAST PRESIDENT.

VICE-PRESIDENTS.

HENRY T. BOVEY, WILLIAM T. JENNINGS.
WILLIAM GEORGE THOMPSON.

TREASURER.

KENNET W. BLACKWELL.

SECRETARY.

CLEMENT H. McLEOD.

~~~~~

**Honorary Councillors :**

**PAST-PRESIDENTS.**

|                                                |                    |
|------------------------------------------------|--------------------|
| COL. SIR CASIMIR S. GZOWSKI, A.D.C., K.C.M.G., | P. ALEX. PETERSON, |
| JOHN KENNEDY,                                  | THOMAS MONRO,      |
| EDMUND P. HANNAFORD,                           | HERBERT WALLIS.    |

**MEMBERS.**

|                         |                        |
|-------------------------|------------------------|
| ST. GEORGE BOSWELL,     | GEORGE A. KEEFER,      |
| MATTHEW JOS. BUTLER,    | DAVID HERBERT KEELEY,  |
| GRANVILLE C. CUNINGHAM, | DUNCAN MACPHERSON,     |
| CHARLES E. W. DODWELL,  | ALAN MACDOUGALL,       |
| GEORGE HERRICK DUGGAN,  | ERNEST MARCEAU,        |
| HENRY IRWIN,            | MARTIN MURPHY,         |
| EDWARD HENRY KEATING,   | HURD PETERS,           |
|                         | HENRY NORLANDE RUTTAN. |

**LIBRARIAN.**

WILLIAM McNAB.



## STANDING COMMITTEES.

### ON FINANCE.

EDMUND P. HANNAFORD, Chairman,  
P. ALEX. PETERSON,  
HERBERT WALLIS,  
MARTIN MURPHY,  
DONALD ALEX. STEWART,

### ON LIBRARY.

GEORGE HERRICK DUGGAN, Chairman,  
GRANVILLE C. CUNINGHAM,  
H. IRWIN,  
DUNCAN MACPHERSON,  
ERNEST MARCEAU.

## COMMITTEE ON PAPERS.

*(Appointed by Council.)*

HERBERT WALLIS, Chairman,  
HENRY JOHN CAMBIE,  
GRANVILLE C. CUNINGHAM,  
CHARLES E. W. DODWELL,  
WILLIAM T. JENNINGS,  
CHARLES H. KEEFER,

JOHN KENNEDY,  
EDWARD MOHUN,  
P. ALEX. PETERSON,  
CHARLES HENRY RUST,  
HENRY N. RUTTAN,  
LOUIS A. VALLÉE.

## GZOWSKI MEDAL COMMITTEE.

*(Appointed by Council.)*

PROF. JOHN GALBRAITH, Chairman,  
WILLIAM T. JENNINGS,

DAVID H. KEELEY,  
THOMAS MONRO,  
CHARLES HENRY RUST.

## BUILDING FUND COMMITTEE.

*(Appointed by Council.)*

THOMAS C. KEEFER, Chairman,  
COL. SIR CASIMIR GZOWSKI,  
JOHN KENNEDY,

E. P. HANNAFORD,  
P. ALEX. PETERSON,  
THOMAS MONRO,  
HERBERT WALLIS.

## STATEMENT OF MEMBERSHIP.

|                        | Jan. 30, 1896. |      |        | Jan. 30, 1897. |      |        |
|------------------------|----------------|------|--------|----------------|------|--------|
|                        | Non Res.       | Res. | Total. | Non Res.       | Res. | Total. |
| HONORARY MEMBERS.....  | 6              | 2    | 8      | 6              | 2    | 8      |
| MEMBERS.....           | 217            | 52   | 269    | 218            | 53   | 271    |
| ASSOCIATE MEMBERS..... | 111            | 29   | 140    | 115            | 30   | 145    |
| ASSOCIATES.....        | 26             | 18   | 44     | 27             | 15   | 42     |
| STUDENTS.....          | 90             | 55   | 145    | 190            | 31   | 121    |
|                        |                |      | 606    |                |      | 587    |

# CANADIAN SOCIETY OF CIVIL ENGINEERS.

LIST OF OFFICERS FOR THE YEARS 1887 TO 1897.

|                                                       | 1887.             | 1888.             | 1889.              | 1890.             | 1891.              | 1892.             | 1893.             | 1894.              | 1895.              | 1896.              | 1897.                  |
|-------------------------------------------------------|-------------------|-------------------|--------------------|-------------------|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|------------------------|
| President....                                         | T. C. KEEFER.     | S. KEEFER.        | C. S. GZOWSKI.     | C. S. GZOWSKI.    | SIR C. S. GZOWSKI. | JOHN KENNEDY.     | E. P. HANNAFORD.  | P. ALEX. PETERSON. | THOMAS MONRO.      | HERBERT WALLIS.    | THOMAS C. KEEFER.      |
| Vice Presi-<br>dents....                              | C. S. GZOWSKI.    | C. S. GZOWSKI.    | E. P. HANNAFORD.   | E. P. HANNAFORD.  | E. P. HANNAFORD.   | W. T. JENNINGS.   | W. T. JENNINGS.   | A. MACDOUGALL.     | W. T. JENNINGS.    | HENRY T. BOVEY.    | HENRY T. BOVEY.        |
|                                                       | J. KENNEDY.       | E. P. HANNAFORD.  | H. F. PERLEY.      | J. KENNEDY.       | J. KENNEDY.        | THOS. MONRO.      | THOS. MONRO.      | P. W. ST. GEORGE.  | M. MURPHY.         | CHAS. MACDONALD.   | W. T. JENNINGS.        |
|                                                       | W. SHANLY.        | H. F. PERLEY.     | P. A. PETERSON.    | H. F. PERLEY.     | F. J. LYNCH.       | P. A. PETERSON.   | P. A. PETERSON.   | H. WALLIS.         | H. WALLIS.         | W. G. THOMPSON.    | W. G. THOMPSON.        |
| Members of<br>Council..                               | F. N. GISBORNE.   | H. ABBOTT.        | G. F. BAILLAIRGE.  | W. P. ANDERSON.   | W. P. ANDERSON.    | J. D. BARNETT.    | J. D. BARNETT.    | H. ABBOTT.         | P. S. ARCHIBALD.   | W. D. BARCLAY.     | ST. GEO. BOSWELL.      |
|                                                       | E. P. HANNAFORD.  | F. R. F. BROWN.   | J. D. BARNETT.     | J. D. BARNETT.    | J. D. BARNETT.     | K. W. BLACKWELL.  | ST. GEO. BOSWELL. | P. S. ARCHIBALD.   | J. D. BARNETT.     | J. D. BARNETT.     | M. J. BUTLER.          |
|                                                       | W. T. JENNINGS.   | F. N. GISBORNE.   | K. W. BLACKWELL.   | F. R. F. BROWN.   | F. R. F. BROWN.    | H. T. BOVEY.      | H. T. BOVEY.      | J. D. BARNETT.     | H. T. BOVEY.       | ST. GEO. BOSWELL.  | G. C. CUNNINGHAM.      |
|                                                       | S. KEEFER.        | J. HOBSON.        | ST. G. J. BOSWELL. | K. W. BLACKWELL.  | K. W. BLACKWELL.   | H. J. CAMBIE.     | P. R. F. BROWN.   | H. T. BOVEY.       | G. C. CUNNINGHAM.  | M. J. BUTLER.      | C. E. W. DODWELL.      |
|                                                       | L. LESAGE.        | W. T. JENNINGS.   | F. R. F. BROWN.    | C. E. W. DODWELL. | C. E. W. DODWELL.  | C. E. W. DODWELL. | G. C. CUNNINGHAM. | O. CHANUTE.        | C. E. W. DODWELL.  | W. R. BUTLER.      | G. H. DUGGAN.          |
|                                                       | H. D. LUMSDEN.    | J. KENNEDY.       | G. C. CUNNINGHAM.  | W. T. JENNINGS.   | H. DONKIN.         | F. C. GAMBLE.     | C. K. DOMVILLE.   | G. C. CUNNINGHAM.  | J. GALBRAITH.      | H. J. CAMBIE.      | H. IRWIN.              |
|                                                       | A. MACDOUGALL.    | L. LESAGE.        | E. GILPIN.         | G. A. KEEFER.     | F. N. GISBORNE.    | F. N. GISBORNE.   | C. H. KEEFER.     | H. DONKIN.         | H. D. LUMSDEN.     | G. C. CUNNINGHAM.  | E. H. KEATING.         |
|                                                       | H. F. PERLEY.     | A. MACDOUGALL.    | F. N. GISBORNE.    | H. G. C. KETCHUM. | E. A. HOARE.       | E. A. HOARE.      | H. D. LUMSDEN.    | G. H. DUGGAN.      | D. MACPHERSON.     | W. B. DAWSON.      | G. A. KEEFER.          |
|                                                       | H. PETERS.        | H. A. F. MACLEOD. | W. T. JENNINGS.    | T. MONRO.         | J. HOBSON.         | JOS. HOBSON.      | A. MACDOUGALL.    | J. GALBRAITH.      | H. N. RUTTAN.      | G. H. DUGGAN.      | D. H. KEELLY.          |
|                                                       | P. A. PETERSON.   | M. MURPHY.        | G. A. KEEFER.      | G. H. MASSY.      | W. T. JENNINGS.    | C. H. KEEFER.     | E. MOHUN.         | G. H. GARDEN.      | J. M. SHANLY.      | H. IRWIN.          | D. MACPHERSON.         |
|                                                       | H. S. POOLE.      | P. A. PETERSON.   | J. KENNEDY.        | P. A. PETERSON.   | T. MONRO.          | H. G. C. KETCHUM. | G. A. MOUNTAIN.   | WM. HASKINS.       | H. B. SMITH.       | E. H. KEATING.     | A. MACDOUGALL.         |
|                                                       | H. N. RUTTAN.     | H. S. POOLE.      | M. MURPHY.         | H. N. RUTTAN.     | P. A. PETERSON.    | H. D. LUMSDEN.    | H. S. POOLE.      | H. A. P. MACLEOD.  | W. J. SPOULE.      | A. MACDOUGALL.     | E. MARCEAU.            |
|                                                       | P. W. ST. GEORGE. | H. N. RUTTAN.     | B. D. MCCONNELL.   | P. W. ST. GEORGE. | H. N. RUTTAN.      | A. MACDOUGALL.    | FRANK R. REDPATH. | H. PETERS.         | R. SERTEES.        | W. G. MATHISON.    | M. MURPHY.             |
|                                                       | C. SCHREIBER.     | P. W. ST. GEORGE. | E. WRAGGE.         | J. W. TRUTCH.     | P. W. ST. GEORGE.  | H. N. RUTTAN.     | THOMAS RIDOUT.    | H. N. RUTTAN.      | W. G. THOMPSON.    | D. A. STEWART.     | H. PETERS.             |
|                                                       | H. WALLIS.        | C. SCHREIBER.     | J. A. VANIER.      | E. WRAGGE.        | SIR J. W. TRUTCH.  | P. W. ST. GEORGE. | P. W. ST. GEORGE. | L. A. VALLEE.      | L. A. VALLEE.      | W. J. SPOULE.      | H. N. RUTTAN.          |
| Past Presi-<br>dents and<br>Hon. Coun-<br>cillors.... | .....             | T. C. KEEFER.     | T. C. KEEFER.      | T. C. KEEFER.     | T. C. KEEFER.      | T. C. KEEFER.     | T. C. KEEFER.     | T. C. KEEFER.      | T. C. KEEFER.      | T. C. KEEFER.      | Col. SIR C. S. GZOWSKI |
|                                                       | .....             | .....             | S. KEEFER.         | .....             | .....              | SIR C. S. GZOWSKI | JOHN KENNEDY.     | SIR C. S. GZOWSKI. | SIR C. S. GZOWSKI. | SIR C. S. GZOWSKI. | JOHN KENNEDY.          |
|                                                       | .....             | .....             | .....              | .....             | .....              | .....             | JOHN KENNEDY.     | JOHN KENNEDY.      | JOHN KENNEDY.      | JOHN KENNEDY.      | E. P. HANNAFORD.       |
|                                                       | .....             | .....             | .....              | .....             | .....              | .....             | JOHN KENNEDY.     | E. P. HANNAFORD.   | E. P. HANNAFORD.   | P. ALEX. PETERSON. | THOS. MONRO.           |
|                                                       | .....             | .....             | .....              | .....             | .....              | .....             | .....             | P. A. PETERSON.    | P. A. PETERSON.    | THOS. MONRO.       | HERBERT WALLIS.        |
| Secretary..                                           | H. T. BOVEY.      | H. T. BOVEY.      | H. T. BOVEY.       | H. T. BOVEY.      | H. T. BOVEY.       | C. H. MCLEOD.     | C. H. MCLEOD.     | C. H. MCLEOD.      | C. H. MCLEOD.      | C. H. MCLEOD.      | C. H. MCLEOD.          |
| Treasurer }                                           |                   | H. WALLIS.        | H. WALLIS.         | H. WALLIS.        | C. H. MCLEOD.      | H. WALLIS.        | H. WALLIS.        | K. W. BLACKWELL.   | K. W. BLACKWELL.   | K. W. BLACKWELL.   | K. W. BLACKWELL.       |
|                                                       |                   |                   |                    |                   | H. WALLIS.         |                   |                   |                    |                    |                    |                        |
| Librarian....                                         | .....             | F. CHADWICK.      | F. CHADWICK.       | F. CHADWICK.      | F. CHADWICK.       | WM. McNAB.        | WM. McNAB.        | WM. McNAB.         | WM. McNAB.         | WM. McNAB.         | WM. McNAB.             |



## HONORARY MEMBERS.

(Hon. M. Can. Soc. C.E.)

| <i>Date of Membership.</i> | <i>Name.</i>                                              | <i>Address.</i>                             |
|----------------------------|-----------------------------------------------------------|---------------------------------------------|
| 1894 Jan. 4.               | ABERDEEN, The Right Hon.,<br>the Earl of, P.C., LL.D.     | Government House, Ottawa.                   |
| 1889 May 23.               | BRAMWELL, <i>Sir</i> FREDERICK JOSEPH,<br>D.C.L., F.R.S.  | 5 Great George St., London,<br>England.     |
| Jan. 3.                    | DAWSON, <i>Sir</i> JOHN WILLIAM,<br>C.M.G., LL.D., F.R.S. | 293 University St., Montreal.               |
| Jan. 3.                    | DERBY, The Right Hon.<br>the Earl of, G.C.B.              | Knowsley, Liverpool, England.               |
| Nov. 14.                   | FOWLER, <i>Sir</i> JOHN, Bart.,<br>K.C.M.G., LL.D.        | 2 Queen's Square Place, London,<br>England. |
| Mar. 28.                   | HARTLEY, <i>Sir</i> CHARLES AUGUSTUS,<br>K.C.M.G.         | 26 Pall Mall, S.W., London,<br>England.     |
| Nov. 14.                   | <i>Hawkshaw, Sir John.</i>                                |                                             |
| May 23.                    | KELVIN, The Right Hon. Lord,<br>F.R.SS.L. & E., LL.D.     | The University, Glasgow,<br>Scotland        |
| 1896 Jan. 9.               | MCDONALD, W. C.                                           | 891 Sherbrooke St., Montreal.               |

## MEMBERS.

(M. Can. Soc. C.E.)

In the following list (†) prefixed to a name indicates the contributor of a paper published in the Transactions of the Society; (G) prefixed to a name indicates the award of a Gzowski medal.

| <i>Date of Membership.</i> | <i>Name.</i>                             | <i>Address.</i>                               |
|----------------------------|------------------------------------------|-----------------------------------------------|
| 1887 Feb. 3.               | ABBOTT, HARRY .....                      | Vancouver, B.C.                               |
| 1890 Apr. 10.              | ABBOTT, IRA .....                        | Room 50, 150 Broadway,<br>New York.           |
| 1887 Jan. 20.              | <i>Abbott, Job</i> .....                 |                                               |
| 1888 Mar. 22.              | ALEXANDER, HORACE CLEMENT .....          | Room 908 Cham. of Com. Bdg.,<br>Chicago, Ill. |
| 1887 Oct. 16.              | A.M. }                                   |                                               |
| 1895 Feb. 28.              | M. }                                     | ALLISON, JOHN LOGIE .....                     |
|                            |                                          | Coteau Landing, P.Q.                          |
| 1887 Jan. 20.              | ANDERSON, <i>Lieut.-Col.</i> WM. P. .... | Dept. of Marine, Ottawa.                      |
| 1887 Nov. 11.              | ARCHIBALD, PETER S. ....                 | Moncton, N.B.                                 |
| 1887 Feb. 24.              | ARMOUR, JOHN FISHER .....                | Dundas, Ont.                                  |
| 1887 Jan. 20.              | ARMOUR, R. ....                          | Asst. Engineer G.T.R., Montreal.              |
| 1887 Jan. 20.              | ARMSTRONG, HARRY W. D. ....              | 594 Church St., Toronto.                      |
| 1888 Oct. 11.              | ARMSTRONG, JOHN HARVEY .....             | 478 Huron St., Toronto.                       |
| †1887 Jan. 20.             | ARMSTRONG, J. S. ....                    | 141 Union St., St. John, N.B.                 |
| 1887 Apr. 28.              | ATKINSON, ROGER .....                    | C. P. R., Montreal.                           |
| 1887 Feb. 24.              | AYLEN, JOHN .....                        | Morrisburg, Ont.                              |
| 1887 Jan. 20.              | AYLMER, JOHN A. ....                     | Box 466, Peterboro, Ont.                      |
|                            |                                          |                                               |
| †1887 Feb. 3.              | BAILLARGÉ, CHAS. P., F.R.S.C. ....       | Quebec.                                       |
| 1887 Feb. 3.               | BAILLARGÉ, GEORGE FRED .....             | 48 St. Louis St., Quebec.                     |
| 1888 Jan. 27.              | BAKER, <i>Sir</i> BENJAMIN .....         | 2 Queen Sq. Pl., London, Eng.                 |
| 1887 Jan. 20.              | BARBER, JAMES HENRY .....                | C. P. R., St. John, N.B.                      |
| 1889 Nov. 14.              | BARCLAY, WILLIAM DUNCAN .....            | Lethbridge, N.W.T.                            |
| 1887 Feb. 3.               | BARLOW, JOHN RIGNEY .....                | City Hall, Montreal.                          |
| †1887 Jan. 20.             | BARNETT, JOHN DAVIS .....                | G. T. R., Stratford, Ont.                     |
| 1893 May 18.               | BARROW, ERNEST GEORGE .....              | City Hall, Hamilton, Ont.                     |
| 1892 Mar. 11.              | BARRY, AUG. BURGESS .....                | 257 Spadina ave., Toronto.                    |
| 1887 Feb. 3.               | BARTLETT, JAMES HERBERT .....            | Middlesborough, Kentucky.                     |
| 1887 Mar. 12.              | BAYNE, GEORGE ARTHUR .....               | 144 Garry St., Winnipeg, Man.                 |
| 1887 Jan. 20.              | BEAUDRY, JOS. A. U. ....                 | 107 St. James St., Montreal.                  |

- |                 |                                    |                                                            |
|-----------------|------------------------------------|------------------------------------------------------------|
| 1887 Feb. 3.    | BEEVOR, ABRAHAM FRED.....          | G. T. R., Montreal.                                        |
| 1887 Feb. 3.    | BELCHER, JOHN E .....              | Peterborough, Ont.                                         |
| 1887 Sept.17.   | BELL, JAMES ANTHONY.....           | St. Thomas, Ont.                                           |
| 1887 Feb. 24.   | A.M. } .....                       |                                                            |
| 1890 Nov. 20.   | M. } BERLINGUET, F. X. THOS.....   | Three Rivers, P.Q.                                         |
| 1887 Feb. 3.    | BERRYMAN, EDGAR ..                 | 14 Richmond Square, Montreal.                              |
| 1887 Feb. 3.    | BLACKWELL, KENNET WM....           | 856 Sherbrooke St., Montreal.                              |
|                 | (Treasurer and Member of Council.) |                                                            |
| 1887 Feb. 3.    | Boag, Robert.....                  |                                                            |
| 1887 Feb. 3.    | BOLLAND, PERCY JAMES LEES.....     | I. C. Ry., Moncton, N.B.                                   |
| 1887 May 23.    | BONZANO, ADOLPHUS.....             | 331 South 18th St., Philadelphia, Pa.                      |
| †1887 Jan. 20.  | BOSWELL, ST. GEO. J., B.A.Sc.8     | St. Denis St., Quebec.                                     |
|                 | (Member of Council.)               |                                                            |
| g†1887 Jan. 20. | BOVEY, HENRY TAYLOR, D.C.L.,       |                                                            |
|                 | LL.D., F.R.S.C.                    | McGill University, Montreal.                               |
|                 | (Vice-President.)                  |                                                            |
| 1888 Apr. 19.   | A.M. } .....                       |                                                            |
| †1896 Dec. 17.  | M. } BOWMAN, HERBERT JOSEPH..      | Berlin, Ont.                                               |
| 1887 June 25.   | BREEN, THOMAS .....                | P. O. Box 1041, Quebec.                                    |
| 1887 Jan. 20.   | BRITAIN, ALFRED .....              | City Hall, Montreal.                                       |
| 1890 May 22.    | A.M. } .....                       |                                                            |
| 1893 Apr. 20.   | M. } BROUGH, WALTER C. ....        | 61 Victoria St., Toronto.                                  |
| 1887 Feb. 3.    | BRUSH, GEORGE .....                | Eagle Foundry, Montreal.                                   |
| †1887 June 9.   | BURCHELL, HERBERT CHAS .....       | St. John's, Nfld.                                          |
| 1894 Dec. 20.   | BURNYEAT, JOHN P .....             | Vernon, B.C.                                               |
| 1890 Feb. 27.   | BURPEE, MOSES .....                | Chief Engineer, Bangor & Aroos-<br>took R.R., Houlton, Me. |
| 1887 Feb. 3.    | BUSK, CHARLES WESTLEY .....        | Balfour, B.C.                                              |
| †1887 Jan. 20.  | BUTLER, MATTHEW JOSEPH...17        | St. James Place, Chicago, Ill.                             |
|                 | (Member of Council.)               |                                                            |
| 1887 Jan. 20.   | BUTLER, WILLIAM ROBT., B.E.....    | King's Coll., Windsor, N.S.                                |
| 1889 Jan. 3.    | CADDY, JOHN ST. VINCENT.....       | Dept. Rys. and Canals, Ottawa,<br>Ont.                     |
| †1888 Feb. 9.   | CAMBIE, HENRY JOHN ..              | Vancouver, B.C.                                            |
| 1887 Feb. 24.   | CAME, FRANK ELDON.....             | P. O. Box 385, Montreal.                                   |
| 1888 Mar. 22.   | A.M. } .....                       |                                                            |
| 1896 June 18.   | M } CAMPBELL, ARCH. WM .....       | St. Thomas, Ont.                                           |
| 1887 Jan. 20.   | CARRE, HENRY .....                 | Box 203, Belleville, Ont.                                  |
| †1894 Mar. 29.  | CARROLL, CYRUS .....               | 97 Bay St. S., Hamilton, Ont.                              |
| 1888 June 27.   | CARRY, HENRY E. C.....             | Vernon, B.C.                                               |

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|----------------|----------------------------------|--------------------------------------------------------------|
| 1890 May 22.   | CHANUTE, OCTAVE.....             | 413 Huron St., Chicago.                                      |
| 1887 Feb. 24.  | CHAPMAN, CHAS. HERBERT.....      | Care of McLennan, Stuart & Chapman, Leader Lane, Toronto.    |
| †1887 June 9.  | CHIPMAN, WILLIS, B.A.Sc. ....    | Bay St., Toronto, Ont.                                       |
| †1887 June 9.  | CLEMENT, LEWIS METZLER....       | 1013 Central Av., Oakland, Cal.                              |
| 1888 Apr. 19.  | Cooke, Richard Plunkett.....     |                                                              |
| †1890 Nov. 20. | CORTHELL, ELMER LAWRENCE. ....   | 71 Broadway, New York.                                       |
| 1887 Jan. 20.  | COSTE, JEAN LOUIS NAPOLEON.....  | Dept. Public Works, Ottawa.                                  |
| 1887 Jan. 20.  | CRAWFORD, WILLIAM.....           | 47 Victoria St., Ottawa.                                     |
| †1887 Feb. 3.  | CUNINGHAM, GRANVILLE C..         | 271 University St., Montreal.                                |
|                | (Member of Council.)             |                                                              |
| 1888 Jan. 6.   | CUSHING, RICHMOND HERSEY.....    | Houlton, Me.                                                 |
| 1888 Mar. 22.  | DANCER, CHAS. HENRY.....         | Portage la Prairie, Man.                                     |
| 1887 Feb. 24.  | A.M. }                           |                                                              |
| 1891 April 9.  | M. }                             | DAVIS, WILLIAM MAHON..... Woodstock, Ont.                    |
| †1887 Jan. 20. | DAVY, RICHARD ADAMS.....         | 170 Queen St., Ottawa.                                       |
| †1887 Feb. 24. | DAWSON, WM. BELL, MA.E., M.A...  | Engineer in charge of Tidal Survey, Dept. of Marine, Ottawa. |
| 1892 May 20    | DE LA VALLÉE POUSSIN, LUDOVIC... | P.O. Box 1144, Montreal.                                     |
| †1887 Jan. 20. | DENIEL, MARIE VICTOR EMILE ....  | Box 88, Cornwall, Ont.                                       |
| 1887 Jan. 6.   | DICKEY, JAMES ALEX.....          | Canada Electric Co., Amherst, N.S.                           |
| 1887 Apr. 12.  | S. }                             |                                                              |
| 1889 Jan. 3.   | A.M. }                           | DOANE, FRANCIS W. W..... City Engineer, Halifax, N.S.        |
| 1892 April 8.  | M. }                             |                                                              |
| †1887 Jan. 20. | DODWELL, CHARLES E. W., B.A..    | 42 Queen St., Halifax, N.S.                                  |
|                | (Member of Council.)             |                                                              |
| 1887 Jan. 20.  | DOMVILLE, CHARLES K.....         | Hamilton, Ont.                                               |
| 1889 Feb. 14.  | DONALDSON, MORLEY.....           | Can. Atlantic Ry., Ottawa.                                   |
| 1887 June 9.   | DONKIN, HIRAM.....               | Mulgrave, N.S.                                               |
| 1887 June 9.   | DOUCET, Capt. ARTHUR EMILE.....  | Care R. G. Reid, Contractor, Placentia Jct., Nfld.           |
| 1887 Feb. 24.  | DRURY, EDMOND H.....             | Sherbrooke, Que.                                             |
| 1895 May 23.   | DUCHESNAY, EDMOND J.....         | Vancouver, B.C.                                              |
| 1887 Feb. 24.  | A.M. }                           |                                                              |
| 1887 Apr. 14.  | M. }                             | DUFFY, AMBROSE, ..... 388 Gilmour St., Ottawa.               |
| 1888 Mar. 22.  | A.M. }                           |                                                              |
| 1890 Feb. 27.  | M. }                             | DUGGAN, GEO. HERRICK. Dom. Bridge Co., Montreal.             |
|                | (Member of Council.)             |                                                              |



- 1894 Oct. 11. EDINGTON, JOHN.....Moncton, N.B.
- 1891 May 21. A.M. } ELLIS, HENRY DISNEY. ....Apsley Lodge, Pittville Circus,  
1896 Dec. 17. M. } Cheltenham, Eng.
- 1887 Feb. 24. EVANS, JOHN DUNLOP.....Trenton, Ont.
- 1887 Feb. 24. EVANS, EDWARD ARTHUR.....Q. & L. St. J. Ry.,  
Quebec, P. Q.
- 1887 Jan. 20. FELLOWES, G. R. L.....Kirkfield, Victoria Co., Ont.
- 1887 Feb. 3. FIRTH, C.....U. S. Engineer's Office,  
Wetumpka, Ala.
- 1888 Sept. 17. FLEMING, RICHARD PHILIP.....Standard Building, St. James  
Street, Montreal.
- 1896 June 18. FLEMING, SANDFORD, C.M.G. ....Ottawa.
- 1889 Nov. 14. FORREST, HORATIO FRED.....Winnipeg, Man.
- 1887 Jan. 20. FORSYTH, ROBERT.....130 Bleury Street, Montreal.
- †1888 Jan. 6. A.M. } FORTIER, SAMUEL, PROF., B.A.Sc. Agricultural College, Logan,  
1892 Dec. 23. M. } Utah.
- 1887 Jan. 20. FOWLER, ZACCHEUS JOHN.....398 Gilmour St., Ottawa.
- 1887 Feb. 3. *Franks, Cecil Bushe*.....
- 1888 June 27. FRY, HENRY, JUN.....Quamichan, B.C.
- 1887 Jan. 20. GALBRAITH, JOHN, PROF., M.A.....School of Prac. Science, Toronto.
- 1888 Mar. 22. GALT, JOHN.....Toronto.
- 1887 Jan. 20. GAMBLE, F. C. ....Dept. Pub. Works, Victoria,  
B.C.
- 1887 Jan. 20. GARDEN, GEORGE HERBERT. ....51 St. Mark St., Montreal.
- 1894 Oct. 11. GARDEN, JAMES F.....Vancouver, B.C.
- 1887 Jan. 20. GIBSON, PETER SILAS.....Willowdale, Ont.
- 1887 Jan. 20. *Gilbert, E. E*.....
- 1887 Jan. 20. GILBERT, FRANK.....Can. Eng. Works, Montreal.
- 1887 Feb. 3. *Gilbert, Walter W*.....
- †1887 Jan. 20. *Gisborne, Frederick N., F.R.S.C.*
- 1887 June 9. A.M. } GISBORNE, HARTLEY.....Qu'Appelle Stn., Assa., N.W.T.  
1892 Dec. 23. M. }
- 1888 Mar. 22. GOAD, CHARLES EDWARD.....15 Wellington St. W., Toronto.
- 1887 Jan. 20. GRAY, HENRY ALFRED.....Rooms 68 and 69 Confederation  
Life Bdg., Toronto.

*List of Members of*

- 1892 Jan. 28. A.M. } GRAYDON, A. ORMSBY.....City Hall, London, Ont.  
 1894 Oct. 11. M. }
- 1896 Dec. 17. GREENWOOD, HENRY SMITH.....P.O. Box 365, Peterboro, Ont.
- 1887 Jan. 20. *Guerin, Thomas*.....
- 1887 Jan. 20. GZOWSKI, COL. SIR CASIMIR  
 STANISLAUS, A.D.C., K.C.M.G..The Hall, Toronto.  
*(Past President and Honorary Councillor.)*
- 1887 Jan. 20. HANNAFORD, EDMUND P.....2573 St. Catherine St., Montreal.  
*(Past President and Honorary Councillor.)*
- †1887 Feb. 24. HARKOM, JOHN WILLIAM.... G. T. Ry., Toronto.
- 1887 Jan. 20. *Harrington, T. W.*.....
- 1888 Feb. 9. HARRIS, WILLIAM DALE.....237 McLaren St., Ottawa.
- 1891 Jan. 29. *Haskins, William*.....
- 1887 Feb. 24. HAY, THOS. ALEX. STEWART.....G. T. Ry., Peterborough, Ont.
- 1888 May 17. HEGAN, JAMES BLACK.....St. John, N.B.
- †1887 Jan. 20. *Henshaw, George H.*.....
- 1889 May 23. HERING, RUROLPH.....277 Pearl Street, New York.
- 1888 May 17. HERTZBERG, ANTON LUND.....C. P. Ry., Toronto.
- 1887 Apr. 28. HIBBARD, F. A.....Ottawa & Parry Sound Ry.,  
 Ottawa, Ont.
- 1887 Feb. 3. HILL, ALBERT JAMES, M.A.....New Westminster, B.C.
- 1887 June 25. HILL, ARTHUR ED. BRETON, B.A.Sc..New Westminster, B.C.
- 1887 Jan. 20. HILLMAN, THOMAS EDWARD.....Bank of Commerce Bdg.,  
 Hamilton, Ont.
- 1889 Feb. 14. A.M. } HISLOP, JOHN, B.A.Sc.....Room 1, 1643 Champa St.,  
 1894 Oct. 11. M. } Denver, Col.
- 1887 Jan. 20. HOARE, EDWARD ARTHUR.....93 St. Peter Square, Quebec.
- 1887 Jan. 20. HOBSON, JOSEPH.... G. T. Ry., Montreal.
- †1890 Apr. 10. HOGG, ALEXANDER LAUDER.... Tilsonburg, Lake Erie & Pac.  
 Ry., Tilsonburg, Ont.
- 1887 Dec. 1. HOLGATE, HENRY.....Mont. Park & Island Ry.,  
 Montreal.
- 1887 Jan. 20. HOLLAND, GEORGE.....G. T. Ry., Montreal.
- 1889 Feb. 14. A. } HOLT, HERBERT SAMUEL.....297 Stanley St., Montreal.  
 1889 Dec. 19. M. }
- †1887 Jan. 20. HOWARD, STUART.....27 St. Luke St., Montreal.
- 1887 Jan. 20. *Hyndman, Patrick Kennedy*.....
- †1887 Jan. 20. A.M. } IRWIN, HENRY.....103 Union Ave., Montreal.  
 1892 May 20. M. }
- (Member of Council.)*

- 1887 Jan. 20. JENNINGS, WILLIAM T.....Molsons Bank Bdg., Cor. King  
(*Vice-President.*) and Bay Sts., Toronto.
- 1887 Feb. 24. JOHNSON, E. V.. ....Dept. of Railways, Ottawa.
- 1893 Apr. 20. JOHNSON, PHELPS.... ....Dom. Bridge Co., Montreal.
- 1895 May 23. KEATING, EDWARD HENRY....City Hall, Toronto.  
(*Member of Council.*)
- 1887 Jan. 20. KEEFER, CHARLES HENRY.....Ottawa.
- 1887 Feb. 3. KEEFER, GEORGE ALEX.....Victoria, B.C.  
(*Member of Council.*)
- 1887 Feb. 3. *Keefer, Harold*.....
- 1887 Jan. 20. KEEFER, THOMAS C., C.M.G....Ottawa.  
(*President.*)
- †1887 Jan. 20. *Keefer, Samuel*.....
- 1893 Apr. 20. KENNEDY, JAMES CRON.....P.O. Box 710, Owen Sound, Ont.
- †1887 Jan. 20. A.M. } KENNEDY, JAMES HENRY....Box 434, St. Thomas, Ont.  
1893 May 18. M. }
- 1887 Jan. 20. KENNEDY, JOHN.... ....Harbour Office, Montreal.  
(*Past President and Honorary Councillor.*)
- 1887 Feb. 24. KENNEDY, WILLIAM, JUN.... ....Room 3, Y.M.C.A. Building,  
Montreal.
- G†1887 Oct. 16. *Ketchum, Henry George Clopper.*
- †1887 Jan. 20. *Killaly, Hamilton H*.....
- 1894 Jan. 4. KING, ROBERT W.....503 Markham St., Toronto.
- 1887 Jan. 20. KINGSFORD, WILLIAM, LL.D.....127 Stewart St., Ottawa.
- 1888 Mar. 22. A.M. } KIRKPATRICK, ALEX. KING...U.P.R., Smith's Falls, Ont.  
1896 Jan. 9. M. }
- 1887 Jan. 20. LAFLEUR, EUGENE D.....Dept. Pub. Works, Ottawa.
- 1887 Feb. 24. A.M. } LANTIER, ELZÉAR.....Coteau du Lac, Que.  
1889 Nov. 14. M. }
- 1892 Dec. 23. LANGTON, JOHN.....Canada Life Building, Toronto.
- †1887 Jan. 20. LAURIE, WALTER H.....203½ St. Hubert St., Montreal.
- †1888 Jan. 6. LAWSON, ALLAN JOHN.... ....Moorgate Court, Moorgate Place,  
London, E.C., Eng.
- 1887 Jan. 20. LEDUC, DENIS.....3 North Weber St., Colorado  
Springs, Col.
- 1893 Oct. 12. LEE, W. WALTER.....Box 1006, Belleville, Ont.
- 1889 Feb. 14. LEIGH, FREDERICK JAMES.....Kingston, Ont.

*List of Members of*

- †1887 Jan. 20. A.M. } LEONARD, REUBEN WELLS.... Beauharnois, P.Q.  
 1890 May 22. M. }  
 1887 Jan. 20. *Lesage, Louis*.....  
 1889 Feb. 14. LINDENTHAL, GUSTAV.....45 Cedar St., New York.  
 1887 Jan. 20. LUMSDEN, HUGH DAVID.....63 Homewood Ave., Toronto.  
 1887 May 12. LYNCH, FRANCIS JOSEPH.....Dept. Rys. & Canals, Ottawa.
- 1888 Mar. 22. MCCARTHY, WILLIAM.....145 Albert St., Ottawa.  
 1887 Feb. 24. S. }  
 1890 Apr. 10. A.M. } MCCOLL, RODERICK.....Prov. Engineer's Office, Halifax,  
 1896 Dec. 17. M. } N.S.
- 1887 Jan. 20. MCCONNELL, BRIAN D.....Westmount, Montreal.  
 1893 Apr. 20. MCCREADY, GEORGE WELLESLEY....Moncton, N.B.  
 †1887 Jan. 20. McLEOD, C. H., F.R.S.C., PROF., McGill University, Montreal.  
 (*Secretary and Member of Council.*)  
 1887 June 25. McMILLAN, DANIEL.....Charlo Station, Restigouche,  
 N.B.
- †1887 Jan. 20. McMINN, THOMAS JAMES.....277 Pearl St., New York.  
 1887 Feb. 3. McNAB, WILLIAM.....G.T.R., Montreal.  
 (*Librarian.*)  
 1887 Feb. 3. McWOOD, WILLIAM.....G.T.R., Montreal.
- 1889 Feb. 14. MACDONALD, CHARLES.....No. 1 Broadway, New York.  
 1896 June 18. MACDONNELL, JOHN ALEX.....Dept. Pub. Works, Winnipeg,  
 Man.
- †1887 Jan. 20. MACDOUGALL, ALAN.....35 Adelaide St. East, Toronto.  
 (*Member of Council.*)  
 1887 Nov. 11. MACKENZIE, WM. BROUARD.....Moncton, N.B.  
 1887 Feb. 24. MACKLIN, JOHN GEORGE.....Cardinal, Ont.  
 1887 Jan. 20. MACLEOD, HENRY A. F.....340 Cooper St., Ottawa.  
 1887 June 9. MACLEOD, MALCOLM HUGH.....C.P.R., Mattawa, Ont.  
 1887 Jan. 20. MACPHERSON, DUNCAN.....C.P.R., Dalhousie Sq. Stn.,  
 Montreal.  
 (*Member of Council.*)  
 1887 May 12. MARCEAU, ERNEST.....1709 Notre Dame St., Montreal.  
 (*Member of Council.*)  
 1891 May 21. MASSON, GEORGE.....Detroit, Mich.
- †1887 Jan. 20. MASSY, GEORGE HUGH.....180 St. James St., Montreal.  
 1887 Feb. 3. MATHESON, WILLIAM GRANT.....New Glasgow, N.S.  
 1887 Feb. 24. MILLER, FRED. FRASER, B.A.Sc.....Napanee, Ont.  
 1888 May 17. A.M. } MILES, CHARLES LeBARON...P. O. Box 117,  
 1890 Apr. 10. M. } Upper Andover, N.B.
- 1887 Nov. 11. MILLIDGE, EDWIN GILPIN.....Antigonish, N.S.  
 1887 Feb. 24. MOFFAT, JAMES W., B.A.Sc.....P.O. Box 678,  
 Salt Lake City, Utah, U.S.
- G†1888 Feb. 9. MOHUN, EDWARD.....Victoria, B.C.

- 1887 Jan. 20. MONRO, THOMAS.. .....Coteau Landing, P.Q.  
(*Past-President and Honorary Councillor.*)
- 1888 Mar. 22. MORKILL, JOHN THOMAS.....Magalia Mining Co., Magalia  
P.O., Butte Co., Cal.
- †1887 Jan. 20. MOUNTAIN, GEORGE ALPHONSO.....Can. At. Ry., Ottawa.
- †1887 Feb. 3. MURPHY, MARTIN, D.Sc.....Halifax, N.S.  
(*Member of Council.*)
- 1888 May 17. NEILSON, MATTHEW.....Care of St. John Ry. Co.,  
St. John, N.B.
- G†1891 Nov. 19. NICOLSON, JOHN T., PROF.....McGill University, Montreal.
- 1888 Jan. 6 A.M. } ODELL, CHARLES M.....North Sydney, N.S.  
1894 Oct. 11 M. }
- 1895 Feb. 28 O'DONNELL, JOHN PATRICK.....70 & 71 Palace Chambers,  
Westminster, London, S.W., Eng.
- 1887 June 25. A.M. } O'DWYER, J. SEABURY, Restigouche & Vict. Ry.,  
1895 May 23. M. } B.A.Sc .....Campbellton, N.B.
- 1891 Jan. 20. O'ROURKE, JOHN FRANCIS.....53 West 85th St., New York.
- 1887 May 12. A.M. } OSLER, CHAS. HODGSON.....168 Rideau St., Kingston, Ont.  
1892 Dec. 23. M. }
- 1896 Dec. 17. O'SULLIVAN, HENRY.....Indian Lorette, P.Q.
- 1887 May 12. *Page, John*.....
- 1887 Jan. 20. PARENT, ETIENNE H .....1030 St. Denis St., Montreal.
- G†1887 Jan. 20. PERLEY, HENRY F.....147 McLaren St., Ottawa.
- 1888 Mar. 22. PERRY, JAMES RUDSTON.....Napanee, Ont.
- 1887 Jan. 20. PETERSON, P. ALEX.....C.P. Ry., Montreal.  
(*Past President and Honorary Councillor.*)
- 1887 Jan. 20. PETERS, HURD.....St. John, N.B.  
(*Member of Council.*)
- 1894 Jan. 4. A.M. } PHILLIPS, ARTHUR TRISTRAM.Box 355, Ottawa.  
1896 Jan. 9. M. }
- 1887 Feb. 24. PIM, JOSEPH PHELPS, B.A.....Room 25 Abington Buildings.  
Portland, Oregon.

*List of Members of*

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|----------------|-------------------------------------|-----------------------------------------------------------|
| 1891 Nov. 19.  | PINDER, WILLIAM GEORGE.....         | 42 Cook St., Victoria, B.C.                               |
| 1887 Jan. 20.  | <i>Plunkett, Edmund Waller.....</i> |                                                           |
| +1887 Jan. 20. | POOLE, HENRY SKEFFINGTON.....       | Stellarton, N.S.                                          |
| 1896 Dec. 17.  | PORTER, JOHN BONSAALL PH. D. Prof., | McGill University, Montreal.                              |
| 1889 Mar. 14.  | POULIN, STANISLAS R.....            | 375 Wellington St., Ottawa.                               |
| 1887 June 25.  | PRATT, ROBERT MURRAY.....           | 3 Musgrave Terrace,<br>St. John's, Nfld.                  |
| 1887 Feb. 24.  | PRINGLE, THOMAS.....                | Room 57, Imperial Bdg.,<br>Montreal.                      |
|                |                                     |                                                           |
| 1887 Oct. 6.   | <i>Ramsey, William Allen.....</i>   |                                                           |
| 1887 Jan. 20.  | RANNEY, GEORGE WARNER.....          | 372 Water St., Peterboro, Ont.                            |
| +1887 Jan. 20. | RHEAUME, LOUIS NAPOLÉON.....        | Morrisburg, Ont.                                          |
| 1887 Apr. 14.  | RHODES, ARMITAGE.....               | P.O. Box 212, Quebec.                                     |
| 1889 Dec. 19.  | A.M. } RHYS-ROBERTS, EDMUND A..     | Buffalo Structural Steel Works,                           |
| 1894 Oct. 11.  | M. }                                | Buffalo, N.Y.                                             |
| 1887 Jan. 11.  | RIDOUT, THOMAS.....                 | Dept. Rys. & Canals, Ottawa.                              |
| 1894 Oct. 20.  | ROBB, DAVID W.....                  | Amherst, N.S.                                             |
| +1887 Jan. 20. | ROBERTSON, GEO. EDWARD, B.A.Sc.     | Galops Canal, Cardinal, Ont.                              |
| 1887 May 12.   | ROGERS, RICHARD B., B.A.Sc.....     | Peterborough, Ont.                                        |
| 1887 Feb. 24.  | ROSAMOND, JAMES EDWARD.....         | Cornwall, Ont.                                            |
| 1888 Oct. 11.  | ROSS, JAMES.....                    | 360 Peel St., Montreal.                                   |
| +1887 Feb. 3.  | RUST, CHARLES HENRY.....            | City Hall, Toronto.                                       |
| 1887 Jan. 20.  | RUTTAN, HENRY NORLANDE..            | City Hall, Winnipeg.                                      |
|                | <i>(Member of Council.)</i>         |                                                           |
|                |                                     |                                                           |
| 1890 Feb. 28.  | A.M. }                              |                                                           |
| 1894 Jan. 4.   | M. }                                | SARGENT, CHAS. D..... Cornwall, Ont.                      |
| 1887 Feb. 24.  | SCHREIBER, COLLINGWOOD.....         | Dept. of Railways, Ottawa.                                |
| 1887 Jan. 20.  | SCOTT, WILLIAM LEMUEL.....          | P.O. Box 90, Prescott, Ont.                               |
| 1887 Feb. 24.  | A.M. }                              |                                                           |
| 1890 Feb. 27.  | M. }                                | SHANLEY, JAMES MOORE.... 346 Prince Arthur St., Montreal. |
| 1887 Feb. 24.  | SHANLY, WALTER.....                 | St. Lawrence Hall, Montreal.                              |
| 1887 Jan. 20.  | SHEWEN, EDWARD T. P.....            | Dept. Pub. Works, St. John, N.B.                          |
| 1888 June 11.  | SIEMENS, ALEXANDER....              | 12 Queen Anne's Gate,<br>London, Eng                      |
| 1887 Feb. 24.  | SIMPSON, FRANK.....                 | 1 Wellington St. East, Toronto.                           |
| 1887 Feb. 3.   | SMITH, A. H.....                    | G. T. Ry., London, Ont.                                   |
| +1887 Dec. 1.  | A.M. }                              |                                                           |
| 1895 Dec. 19.  | M. }                                | SMITH, CECIL BRUNSWICK, MA, McGill University, Montreal.  |



- †1888 Feb. 9. SMITH, HENRY BADELEY.....Rossland, B.C.  
 1887 Jan. 20. SMITH, HENRY.....Dept. Crown Lands, Toronto.
- †1887 Sept. 17. *Smith, Thomas T. Vernon*.....  
 1887 May 12. SOMERVILLE, FRANK LINN.....G. T. Ry., Montreal.  
 1894 Dec. 20. SPENCE, JAS. BRUCE.....Dept. Rys. and Canals, Ottawa.  
 1887 Jan. 20. *Sproatt, C.*.....
- †1887 Jan. 20. SPROULE, WILLIAM JOHNSTON, MA.E.Harbour Office, Montreal.  
 1887 Feb. 24. A.M. } STECKEL, LOUIS JOSEPH  
 1888 Feb. 9. M. } RÉNÉ.....Dept. Pub. Works, Ottawa.  
 1889 Nov. 14. STEWART, ALEXANDER.....1616 Harmon Pl., Minneapolis,  
 Minn.
- †1893 Apr. 29. STEWART, DONALD ALEXANDER,  
 B.A.Sc.....C. P. Ry., Winnipeg, Man.  
 1888 Feb. 9. STEWART, GEORGE ALEXANDER....National Park, Alberta.  
 1887 Jan. 20. ST. GEORGE, PERCIVAL W.....City Hall, Montreal.  
 1891 Nov. 19. A.M. }  
 1892 April 8. M. } STOESS, CHAS. ANTHONY....New Westminster, B.C.  
 1887 Jan. 20. *Stokes, J. T.*.....  
 1888 Feb. 9. SUMMERFIELD, PETER.....Portland, Oregon.  
 1887 Jan. 20. SURTEES, ROBERT.....City Engineer, Ottawa.  
 1888 June 11. SUTCLIFFE, JOHN.....Mansion Sq., Poughkeepsie, N.Y.  
 1887 Feb. 24. SYKES, SAMUEL H.....Medford, P.O., Jackson Co.,  
 Oregon.
- 1887 Feb. 3. SYMMES, H. C.....Niagara Falls, Ont.  
 1890 Apr. 10. A.M. }  
 1896 June 18. M. } SYMMES, CHAS. THOMAS W...Los Vilos, Chili.
- 1887 Apr. 28. TATE, ROBERT FREDERICK.....294 Crawford St., Toronto.  
 1889 May 23. TEMPLE, EDMUND BONNER.....25 Toronto St., Toronto.  
 1891 Jan. 29. THOMPSON, WM. GEORGE....Res. Engineer Welland Canal,  
 (Vice President.) St. Catharines, Ont.  
 1889 Dec. 19. THOMSON, FREDERICK.....91 Temple Bdg., Montreal.
- †1888 Mar. 22. *Torrance, John Fraser, B.A.Sc.*..  
 1888 Oct. 11. TRACY, Col. THOMAS H.....City Hall, Vancouver, B.C.  
 1887 Sept. 17. TRUTH, Sir JOSEPH W.....27 Castle Hill Ave., Folkestone,  
 Kent, Eng.
- 1891 Oct. 8. TWINING, CHAS. RUFUS FAIRBANKS..Calle de Patoni No. 5, City of  
 Mexico, Mexico.  
 1896 Dec. 17. TYE, WM. FRANCIS.....Chief Engineer C. & N. Ry.,  
 Trail, B.C.  
 1896 Dec. 17. TYRRELL, JAS. WILLIAMS.....42 James St. N., Hamilton, Ont.

*List of Members of*

- †1887 Nov. 11. UNIACKE, ROBERT FITZGERALD....Yarmouth, N.S.  
 1888 Jan. 6. *Unsworth, Joseph Iennon*.....
- 1892 Jan. 28. VALIQUET, ULRIC.....St. Joseph de Levis, Que.  
 1887 Nov. 11. VALLÉE, LOUIS ANDRÉ.....Dept. Public Works, Quebec.  
 G†1888 Jan. 9. VAUTELET, HENRI ETIENNE.....C. P. Railway, Windsor St.,  
 Montreal.
- 1894 Dec. 20. WALSH, EDMUND J.....329 Besserer St., Ottawa.  
 1887 Jan. 20. WALBANK, W. MCLEA, B.A.Sc...214 St. James St., Montreal.  
 1887 Jan. 20. WALLIS, HERBERT.....239 Drummond St., Montreal.  
 (*Past President and Honorary Councillor.*)
- 1887 Jan. 20. WANKLYN, FREDERICK LUMB.....Toronto Street Ry., Toronto.  
 1888 Oct. 11. *Wasell, Edward*.....  
 1887 Feb. 24. WEBSTER, GEO. HERBERT.....Chief Engineer, M. & N. W. Ry.,  
 Portage la Prairie, Man.
- 1891 Oct. 8. *Wellington, Arthur M*.....  
 1893 May 18. WETMORE, GEORGE LUDLOW.....Schreiber, Ont.  
 1896 Dec. 17. WHITE-FRASER, GEORGE.....18 Imperial Loan Bdg., Toronto.  
 1887 Jan. 20. WHITE, THOS. HY.....St. Thomas, Ont.  
 †1887 Jan. 20. WICKSTEED, HY. K., B.A.Sc.....Box 156, Cobourg, Ont.  
 1890 May 22. WILLIAMS, JOHN.....1017 Bathurst St., Toronto.  
 1893 Apr. 20. WILLIAMSON, FRANCIS STUART....No. 1 Broadway, New York,  
 U. S. A.
- 1888 Jan. 6. WILMOT, EDWARD ASHLEY.....Victoria, B.C.  
 1887 Feb. 24. WILSON, JAS.....Supt. Q. V. Niagara Falls Park,  
 Niagara Falls, Ont.
- 1887 Jan. 20. *Wise, Frederick A*.....  
 1887 Jan. 20. WRAGGE, EDMUND.....G. T. Ry., Toronto.
- 1889 Dec. 19. *Fates, Henry*.....
- 1890 Feb. 27. ZDZIARSKI, ANTOINE.....Petropavlovsk,  
 Akmolinsk District, Russia.  
 1889 Dec. 19. ZUTCHER, MAX A.....1211B St. Denis St.,  
 Coteau St. Louis, Montreal.

# ASSOCIATE MEMBERS.

(A. M. Can. Soc. C. E.)

| <i>Date of Membership.</i> | <i>Name.</i>                          | <i>Address.</i>                                             |
|----------------------------|---------------------------------------|-------------------------------------------------------------|
| 1889 Mar.14.               | A } ABREY, GEO. BROKITT. ....         | Toronto Junction, Ont.                                      |
| 1890 Apr.10.               | A.M. }                                |                                                             |
| 1893 Apr. 20.              | S. }                                  |                                                             |
| 1896 June 18.              | A.M. }                                | AMOS, LOUIS AUGUSTE ..... 61 Temple Bdg., Montreal.         |
| 1887 Jan. 20.              | <i>Archbald, Henry, B.A.Sc.</i> ..... | ...                                                         |
| 1887 Feb.24.               | S. }                                  | ASHERIDGE, WELLINGTON T.... City Engineer's Office, London, |
| 1892 Jan. 28.              | A.M. }                                | Ont.                                                        |
| 1892 April 8.              | ASTLEY, JOHN WM.....                  | City Engineer's Office,<br>Winnipeg, Man,                   |
| 1887 June 25.              | AYLMER, HARRY BROCK. ....             | Melbourne, P.Q.                                             |
| 1892 Jan. 28.              | BAKER, S. HANLAN. ....                | 334 Dearborn St., Chicago, Ill.                             |
| 1892 May 20.               | BALL, EDWARD FREY.....                | Newcastle, Colorado.                                        |
| 1887 Jan. 20.              | S. }                                  |                                                             |
| 1891 April 9.              | A.M. }                                | BALL, JOHN PLAW, B.A.Sc.. Lemont, Cook Co., Ill.            |
| 1887 June 9.               | BANNISTER, HENRY.....                 | 81 Shuter St., Toronto.                                     |
| 1887 Jan. 20.              | S. }                                  |                                                             |
| 1896 Dec. 17.              | A.M. }                                | BERTRAND, J. N. TÊTU..... Rivière du Loup en bas, P.Q.      |
| 1888 Dec. 6.               | S. }                                  | BICKERDIKE, ROBT., JUN., }                                  |
| 1895 May 23.               | A.M. }                                | B.A.Sc..... { P.O. Box 94, Montreal.                        |
| 1888 Feb. 9.               | BOOTH, CHAS. ED. STUART.....          | 196 Colborne St., Kingston, O.                              |
| 1887 June 25.              | S. }                                  | BOWMAN, FRED. ALLISON.... New Glasgow Electric Co.,         |
| 1891 Nov.17.               | A.M. }                                | New Glasgow, N.S.                                           |
| 1892 April 8.              | <i>Bowman, Leander Meyer</i> .....    |                                                             |
| 1887 Apr.28.               | S. }                                  | BROOKS, NOEL EDGELL ..... C/o Calgary C. & E. Ry., Cal-     |
| 1890 Nov. 20.              | A.M. }                                | gary Hotel, Calgary, N.W.T.                                 |
| 1887 Feb. 24.              | BURNS, DAVID. ....                    | 168 Spadina Ave., Toronto.                                  |
| 1890 Feb. 27.              | BURNS, WILLIAM.....                   | Renfrew, P.O., Renfrew, Ont.                                |
| 1887 Feb. 24.              | CAIRNIE, GORDON F .....               | Melbourne, Que.                                             |
| 1891 Nov. 19.              | S. }                                  | CAMPBELL, WM. FRANCIS.... Care J. R. Campbell, Esq.,        |
| 1895 Dec. 19.              | A.M. }                                | Ritchie's Bdg., St. John, N.B.                              |
| 1893 Oct. 12.              | CARROLL, WM. J. ....                  | St. Catharines, Ont.                                        |
| 1895 May 23.               | CASGRAIN, JOS. P. B.....              | 180 St. James St., Montreal.                                |
| 1887 Feb. 24.              | CHALONER, CHARLES.....                | Dept. Public Works, Ottawa.                                 |
| 1896 Dec. 17.              | CHAPLEAU, SAMUEL JEFFERSON ....       | 267 O'Connor St., Ottawa.                                   |
| 1889 Nov.14.               | CHAPMAN, WALTER PECK.....             | G. T. R., Hamilton, Ont.                                    |
| 1892 May 11.               | CHEWETT, JAMES HENRY ....             | 83½ York St., Toronto.                                      |
| 1887 Jan. 20.              | S. }                                  | CHILDS, ARTHUR EDWARD, 333 Exchange Bdg., Boston, Mass.     |
| †1894 Dec. 20.             | A.M. }                                | B.A.Sc.                                                     |

*List of Associate Members of*

- 1887 Nov. 11. COWIE, FREDERICK WM., B.A.Sc....Dept. Public Works, Ottawa.  
 1888 Mar. 25. S. }  
 †1894 Dec. 20. A.M. } COUTLÉE, CHAS. R. F. .... Cascades, Co. of Soulanges, Que.  
 1892 Mar. 11. CROSSLEY, FREDERICK..... 10 Moreland Ave., Montreal.  
 1887 Feb. 24. CROWLEY, CHARLES JAS..... 383 Markham St., Toronto.  
 1895 May 23. CRUMPTON, ARTHUR..... G. T. R., Montreal.
- 1896 Dec. 17. DAVIS, ALLAN ROSS..... Peterboro, Ont.  
 1889 Nov. 14. S. }  
 1895 Dec. 19. A.M. } DAWSON, ALEX. SCOTT, } Metropolitan Water Board,  
 3 Mt. Vernon St., Boston, Mass.  
 1887 June 28. S. }  
 1892 April 8. A.M. } DAWSON, GEORGE HERBERT, } Williams Bros. & Dawson,  
 Vancouver, B.C.  
 1887 June 25. DREWRY, WILLIAM STEWART..... Dept. of Land and Works,  
 Victoria, B.C.
- †1889 Mar. 14. DRUMMOND, THOMAS, B.A.Sc..... 34 St. Matthew St., Montreal.  
 1890 Apr. 10. S. }  
 1896 June 18. A.M. } DUFF, JOHN ANDREW. .... School of Prac. Science, Toronto.  
 1887 June 25. DUNN, GUY CRAMP BELL..... O. & G. V. Railway, Central  
 Chambers, Elgin St., Ottawa.
- 1892 Dec. 23. EATON, DANIEL ISAAC VERNON..... The Barracks, Fredericton, N.B.  
 1890 Apr. 10. EVANS, A. KELLY..... Foot of Sherburne St., Toronto.  
 1892 Nov. 11. EWING, JAMES..... Engineer's Department,  
 C. P. R., Montreal.
- 1895 Feb. 28. FERRARA, PETER..... 278 Main St., Pittsburg, Pa.  
 1893 Oct. 12. FITZGIBBON, ROBT..... P.O. Box 426, Montreal.  
 1887 Jan. 20. FLEMING, SANDFORD H..... Victoria Chambers, Ottawa.  
 1896 Mar. 12. FRANCIS, WALTER JOS..... C/o Central Bridge & Eng. Co.,  
 Ltd., Peterboro, Ont.  
 1892 Mar. 11. FRIPP, FRED. BOWLES..... Kirkfield, Vict. Co., Ont.
- 1887 Feb. 3. GARDINER, EDWARD..... St. Catharines, Ont.  
 1887 Jan. 20. GAUVIN, CHAS. EDWARD..... Quebec.  
 1896 Dec. 17. GENEST, ARTHUR T..... 79 Mackay St., Montreal.  
 1888 Dec. 6. GIROUARD, *Lieut.* PERCY C., R.E.... Egyptian Army, Madley, Halfaj,  
 Egypt.
- 1887 June 25. *Giroux, Nap. Julien*.....  
 †1892 May 20. GOING, ALVAH SEYMOUR..... Cor. Hillside Ave. and Cook St.,  
 Victoria, B.C.  
 1891 Oct. 8. GRANT, ALEX. JOS..... Cascades Point, Co. of  
 Soulanges, P.Q.  
 1892 May 20. GREEN, CHAS. DE BLOIS..... 16 Labouchère St.,  
 Victoria, B.C.

- |                 |                                  |                                                                         |
|-----------------|----------------------------------|-------------------------------------------------------------------------|
| 1889 Dec. 19.   | HANNAFORD, R. MAITLAND.....      | Kingston, Ont.                                                          |
| 1886 Mar. 12.   | HARRIS, JOHN WALTER.....         | Winnipeg, Man.                                                          |
| 1895 Feb. 28.   | HAYCROFT, JAS. ISAAC.....        | Fontenay Woollahra, Sydney,<br>N.S.W., Australia.                       |
| 1896 Dec. 17.   | HAZEN, HUGH T.....               | C. N. & P. Ry., Cobourg, Ont.                                           |
| 1888 Mar. 22.   | S. } HEATHCOTE, WILLIAM C. P..   | Gananoque, Ont.                                                         |
| 1895 Feb. 28.   | A.M. }                           |                                                                         |
| 1892 May 11.    | HEBERT, EDMUND ANT.....          | Correo Apartado No. 99,<br>Puebla, Estado de Puebla,<br>E.U. de Mexico. |
| 1887 Feb. 24.   | HECKMAN, JOS. WM., B.E.....      | 803 Dorchester St., Montreal.                                           |
| 1892 May 20.    | HENDRY, WM. A.....               | Halifax, N.S.                                                           |
| 1892 May 20.    | HENDERSON, THOS. ROBT....        | 28 McTavish St., Montreal.                                              |
| 1893 Oct. 12.   | HESKETH, JAS. A.....             | 1640 King St. W., Toronto, Ont.                                         |
| 1893 Oct. 12.   | HIGMAN, ORMOND.....              | Chief Electrician<br>Inland Revenue Dept., Ottawa.                      |
| 1887 Feb. 3.    | HODGINS, ARTHUR EDWARD.....      | Nelson, B.C.                                                            |
| 1887 Jan. 20.   | S. } HOPKINS, MARSHALL WIL-      |                                                                         |
| 1891 April 9.   | A.M. }                           | LARD, B.A.Sc.....                                                       |
| 1893 Oct. 12.   | HUSBANDS, ARTHUR L.....          | 136 Railroad St.,<br>St. Johnsbury, Vt.                                 |
| +1887 Jan. 20.  | S. } JONAH, F. GILBERT.....      | Res. Engineer St. L. P. & N.                                            |
| 1889 Dec. 19.   | A.M. }                           | Ry., Marine, Ill.                                                       |
| 1892 Dec. 23.   | JONES, THOS. HENRY, B.A.Sc.....  | Brantford, Ont.                                                         |
| G+1887 June 25. | KEELEY, DAVID HERBERT.....       | Govt. Tel. Service, Ottawa.<br>(Member of Council.)                     |
| 1888 Apr. 19.   | KENRICK, ROBT. B.....            | Dom. Bridge Co., Montreal.                                              |
| 1893 Apr. 20.   | KER, NEWTON JAS.....             | City Engineer's Office, Toronto.                                        |
| 1893 Apr. 20.   | KERRY, FORBES M.....             | Midway, B.C.                                                            |
| 1888 Mar. 22.   | S. } KERRY, JOHN G. G., B.A.Sc.. | 149 Durocher St., Montreal.                                             |
| +1894 Jan. 4.   | A.M. }                           |                                                                         |
| +1890 Nov. 20.  | S. } KINGSTON, CHAS. BURRARD, }  |                                                                         |
| 1896 Jan. 9.    | A.M. }                           | B.A.Sc.....                                                             |
| 1890 Nov. 20.   | S. }                             | Coolgardie, Western Australia.                                          |
| 1894 Dec. 20.   | A.M. }                           | KIPPEN, HORACE BRUCE....                                                |
|                 |                                  | Lennoxville, Que.                                                       |
| 1896 June 18.   | LAIRD, ROBERT.....               | Rat Portage, Ont.                                                       |
| 1888 June 27.   | LANGVIN, H. LAFORCE.....         | 73 Lewis St., Quebec.                                                   |
| 1887 Feb. 24.   | LANGUEDOC, G. F. ERROL DEGUERRY. | 180 St. James St., Montreal.                                            |
| +1887 Jan. 20.  | S. } LEA, RICHARD S., B.A.Sc.... | 2436 St. Catherine St.,                                                 |
| 1894 Dec. 20.   | A.M. }                           | Montreal.                                                               |
| 1893 May 18.    | LECKIE, ROBT. G. E.....          | Torbrook, N.S.                                                          |
| 1889 Dec. 19.   | LEPROHON, C. DE BELLEFEUILLE.... | 961 Dorchester St., Montreal.                                           |

*List of Associate Members of*

- 1887 Jan. 20. LESAGE, THOS. W., B.A.Sc. .... City Hall, Montreal.  
 1894 Mar. 29. LESLIE, WM. L. .... Dept. Rys. & Canals, Ottawa.  
 1894 Dec. 20. LEWIS, DAVID OWEN. .... New Denver, B. C.  
 1887 June 9. S. } LOCKE, ROBT. TODD. .... Care of F. W. W. Doane,  
 1891 Nov. 19. A.M. } City Engineer, Halifax, N.S.  
 1887 Dec. 1. S. } LOVEFACE, EDGAR S. M., }  
 1893 Apr. 19. A.M. } B.A.Sc. .... } 457 Elm Ave., Westmount.
- 1895 Dec. 19. McCALLUM, ALEX. CAMPBELL. .... P. O. Box 198, Peterboro, Ont.  
 1887 Jan. 20. S. } MCCARTHY, JAS. MARMADUKE, }  
 1890 Feb. 27. A.M. } B.A.Sc. .... } Standard Bldg., Montreal.  
 1891 Apr. 9. McCULLOCH, AND. LAKE. .... Sarnia, Ont.  
 1887 Feb. 24. S. } McDOWALL, ROBT. .... Owen Sound, Ont.  
 1892 Jan. 28. A.M. }
- 1888 Feb. 9. S. }  
 1896 Jan. 9. A.M. } MACDONALD, JOHN K. .... City Hall, Dunkirk, N.Y.  
 1894 Mar. 29. MACGREGOR, J. GRANT. .... Engineer's Office, C. P. R.,  
 Montreal.
- 1888 May 28. MACKENZIE, JAS. W. .... Whycocomagh, C. B.  
 1887 Dec. 1. S. }  
 1895 Dec. 19. A.M. } MATTICE, ERNEST S., B.A.Sc. 264 Wood Ave, Montreal.  
 1891 Jan. 29. MILICAN, CHAS. ARTHUR. .... Box 476, Winnipeg, Man.  
 1895 Dec. 19. MILNE, JAMES. .... 219 University St., Toronto.  
 1888 Mar. 22. S. }  
 1894 Jan. 4. A.M. } MORROW, HAROLD A. .... Box 184, Peterborough, Ont.
- 1891 Oct. 8. S. }  
 1894 Oct. 11. A.M. } NEWMAN, WM. .... Box 442, Windsor, Ont.
- 1887 Feb. 3. O'HANLY, JOHN MITCHELL. .... 352 Dale St., Ottawa.  
 1887 Oct. 16. OLIVER, STUART STIRLING. .... Quebec.  
 1887 Feb. 3. ORD, LEWIS R. .... Florida East Coast Ry.,  
 St. Augustine, Fla.  
 1896 June 18. ORROCK, JOHN WILSON. .... Beauharnois, P.Q.
- 1887 Jan. 20. S. } PALMER, ROBT. ED., B.A.Sc. P.O. Box 292, Vancouver,  
 1891 Nov. 19. A.M. \* } B. C



- 1891 Apr. 9. PANI, CAMILO ENRIQUE.....Asst. Supt. Guggenheim  
Smelting Co., Aguascalientes,  
Mexico.
- 1887 Feb. 24. PAPINEAU, LOUIS G.....369 St. Denis St., Montreal.
- 1887 Feb. 24. PARISEAU, LOUIS S.....St. Johns, P.Q.
- 1888 Feb. 9. S. } PEARSE, THOS. E. E.....Far Rockaway, Long Island.
- 1894 Dec. 20. A.M. }
- 1887 Jan. 20. PERREAU, EDWARD EUGENE.....City Hall, Ottawa.
- 1890 Apr. 10. S. }
- 1894 Oct. 11. A.M. } *Pedder, Jas. R.*.....
- 1888 May 19. PILSWORTH, WM. ROBERT.....City Hall, Toronto.
- 1887 Feb. 24. S. }
- 1894 Jan. 4. A.M. } PINHEY, CHAS. H.....630 Wellington St., Ottawa.
- 1893 Apr. 20. POTTER, ALEXANDER.....137 Broadway, New York.
- 
- 1887 June 25. S. }
- 1895 Feb. 28. A.M. } REID, WM. MURRAY, B.A.Sc.478 Guy St, Montreal.
- 1887 Feb. 24. S. }
- 1895 May 23. A.M. } RICHARDSON, GEO. H.....36 St. Joseph St., Toronto.
- 1889 Feb. 14. ROSS, ALEX. BELL.....No. 3 Walmar Rd., Toronto.
- 1894 Dec. 20. ROSS, GEORGE, B.A.Sc .....Welland, Ont.
- 1887 Feb.24. ROY, JOSEPH R.....631 Sherbrooke St., Montreal.
- 1888 Feb. 9. S. }
- 1891 Jan.29. A.M. } RUSSELL, THOS. SIMPSON.....20 Sussex Ave., Toronto.
- 1894 Jan. 4. RUTHERFORD, WALTER.....65 Front St. W., Toronto, Ont.
- 
- 1891 April 9. SAUNDERS, B. JOHNSTON, B.A.Sc....Brockville, Ont.
- 1888 Mar. 22. S. }
- 1893 Mar. 12. A.M. } SCHWITZER, JOHN EDWARD, }  
B.A.Sc.....} 486 Rideau St., Ottawa.
- 1892 April 8. SHEARWOOD, FRED. PERRY.....Dom. Bridge Co., Montreal.
- 1896 Dec. 17. SIMONDS, FRANCIS EDWARD.....Portage la Prairie, Man.
- 1887 May 12. S. }
- 1888 Feb. 9. A.M. } SKAIFE, WILFRED T., B.A.Sc.630 Sherbrooke St., Montreal.
- 1887 June 25. *Smith, Wm. Henry Chatterton*....
- 1888 June 27. S. }
- 1896 Mar. 12. A.M. } SPENCE, ALEXANDER W.....Dept. Rys. & Canals, Ottawa.
- 1891 Nov.19. STEELE, EDWARD CHAS.....Goderich, Ont.
- 1890 Feb. 27. S. }
- 1896 Mar. 12. A.M. } STEVENS, ALFRED JAS.....I.C. Ry., Moncton, N.B.
- 1888 Mar. 22. S. }
- †1895 Feb. 28. A.M. } STONE, ERNEST ALBERT, }  
B.A.Sc.....} 127 Lewis Ave., Westmount.

*List of Associate Members of*

- 1888 Mar. 22. THOMAS, ALFRED.....Room 792 Arcade Building,  
Cleveland, Ohio.
- 1887 Jan. 20. THOMPSON, ROSS.....Port Arthur, Ont.
- +1894 Jan. 4. THOMPSON, WILLIAM T., M.A.Sc.....Qu'Appelle Sta., Assa., N.W.T.
- 1887 Feb. 9. S. } THOMSON, W. CHASE.....Care of Dom. Bridge Co.,  
1894 Jan. 4. A.M. } Montreal.
- 1889 Nov. 14. TOMS, LEWIS WM.....Care J. P. Roberts, Esq.,  
Bank of B. N. A. Vancouver,  
B.C.
- 1888 May 17. TRUE, ABBOT.....P. O. Box 481, Lennoxville, Que.
- 1888 Feb. 9. S. } TYRRELL, HY. GRATTAN.....New Britain, Conn.  
1889 Dec. 19. A.M. }
- 1896 Dec. 17. UMNEY, HERBERT W.....McGill University, Montreal.
- 1891 April 9. VAN BUSKIRK, WM. FRASER.....Stratford, Ont.
- 1887 Jan. 20. VANIER, J. EMILE.....Imperial Building, St. James  
St., Montreal.
- 1888 Apr. 19. WALKER, ALF. PAVERLEY.....Engineer's Dept., C. P. Ry.,  
Toronto, Ont.
- 1894 Mar. 29. WARNER, WM. GEORGE.....Room 2, 36 Toronto St.,  
Toronto.
- 1894 Dec. 20. WHEATON, LEWIS H.....Yarmouth, N.S.
- 1894 Jan. 4. WILFORD, FRED, R.....Cookshire, Que.
- 1896 Dec. 17. WOODMAN, JOHN.....Winnipeg, Man.
- 1887 June 22. WOODS, JOS. EDWARD .....Aylmer, P.Q.

**ASSOCIATES.**

(A. Can. Soc. C. E.)

| <i>Date of Membership.</i> | <i>Name.</i>                  | <i>Address.</i>                                |
|----------------------------|-------------------------------|------------------------------------------------|
| 1895 Dec. 19.              | ALLAN, FRED. G. B.....        | Napanee Mills, Ont.                            |
| 1889 Feb. 14.              | BARR, MARSHALL D.....         | 39 Cortland St., New York.                     |
| 1891 Apr. 9.               | BELL, JOHN, Q.C....           | Belleville, Ont.                               |
| 1889 Nov. 14.              | BRAINERD, THOMAS C., M.D....  | 171 Drummond St., Montreal.                    |
| 1895 Feb. 28.              | BUDDEN, HANBURY A.....        | 2482 St. Catherine St.,<br>Montreal.           |
| 1889 Jan. 3.               | COWANS, JOHN R.....           | Cumberland Mines, N.S.                         |
| 1891 Nov. 19.              | GIBSON, WILLIAM, M.P.....     | Beamsville, Ont.                               |
| 1887 May 17.               | GRIFFIN, CHARLES GEORGE ..... | Ship Canal, Sault Ste. Marie,<br>Ont.          |
| 1889 Dec. 19.              | HENDRIE, WILLIAM.....         | Hamilton, Ont.                                 |
| 1887 Feb. 3.               | A.M. } HOOPER, GEORGE R.....  | W. Dow & Co., Montreal.                        |
| 1890 Feb. 27.              | A. }                          |                                                |
| 1891 May 21.               | HOWLAND, OLIVIER AITKEN.....  | 103 Bay St., Toronto.                          |
| 1888 Mar. 22.              | ISBESTER, JAMES.....          | 73 Daly Ave., Ottawa.                          |
| 1888 Mar. 22.              | IVES, HUBERT R.....           | 200 University St., Montreal.                  |
| 1886 Dec. 17.              | JONES, THOS. HARRISON.....    | 65 Front St., Toronto.                         |
| 1893 Apr. 20.              | KAMMERER, JACOB A.....        | 38 York St., Toronto.                          |
| 1887 Jan. 20.              | LECKIE, P. G.....             | The Londonderry Iron Co.,<br>Londonderry, N.S. |

## List of Associates of

- |               |                                            |                                                     |
|---------------|--------------------------------------------|-----------------------------------------------------|
| 1891 Nov. 19. | McFARLAND, JOS. WALTER.....                | P.O. Box 206, Vancouver, B.C.                       |
| 1898 Apr. 19. | McKENZIE, JOHN.....                        | New Westminster, B.C.                               |
| 1893 Apr. 20. | McLAREN, HARRY, B.A.....                   | 67 Mansfield St., Montreal.                         |
| +1888 Feb. 9. | McLENNAN, JOHN S., B.A.....                | 95 Milk St., Boston, Mass.                          |
| 1889 Jan. 3.  | MOLSON, JOHN HENRY R.....                  | Piedmont, Montreal.                                 |
| 1896 June 18. | MORRISON, THOS. A....                      | 118 St. Peter St., Montreal.                        |
|               |                                            |                                                     |
| 1896 Dec. 17. | NICHOLLS, FREDERIC.....                    | 65 Front St. W., Toronto.                           |
|               |                                            |                                                     |
| 1888 May 17.  | OSLER, BRITTEN BATH, Q.C.....              | 23 Toronto St., Toronto.                            |
|               |                                            |                                                     |
| 1888 Oct. 11. | POLSON, FRANKLIN BATES.....                | Polson Iron Works, Toronto.                         |
| 1888 May 17.  | PRICE, BRUCE.....                          | 150 Fifth Avenue, New York.                         |
|               |                                            |                                                     |
| 1890 Nov. 20. | RATHBUN, EDWARD WILKES.....                | Deseronto, Ont.                                     |
| 1887 Jan. 20. | Reaves, George R.....                      |                                                     |
| 1887 June 9.  | REID, ROBERT GILLESPIE.....                | Temple Building,<br>St. James St., Montreal.        |
| 1891 Jan. 29. | REID, WILLIAM GILLESPIE.....               | 30 St. John St., Montreal.                          |
| 1887 Jan. 20. | Reynolds, F. H.....                        |                                                     |
| 1887 Jan. 20. | RIELLE, JOSEPH.....                        | New York Life Bdg., Place<br>d'Armes Sq., Montreal. |
| 1890 Feb. 27. | ROBERTSON, J. C.....                       | St. John, N.B.                                      |
| 1888 May 17.  | RYAN, HUGH.....                            | Toronto.                                            |
|               |                                            |                                                     |
| 1890 Apr. 10. | SCOTT, J. PHILIP.....                      | W. Dow & Co., Montreal.                             |
| 1888 May 17.  | SHAUGHNESSY, THOMAS G.....                 | C.P.Ry., Montreal.                                  |
| 1890 Feb. 27. | SHEARER, JAMES TRAILL....                  | Montreal.                                           |
| 1889 May 23.  | SMITH, Sir DONALD A , K.C.M.G.             | 1157 Dorchester St., Montreal.                      |
| 1888 Mar. 22. | SUTHERLAND, KENNETH.....                   | Kentville, N.S.                                     |
| 1889 Feb. 14. | SWINYARD, THOMAS M.....                    | The Hall, Gilbertsville, N.Y.                       |
|               |                                            |                                                     |
| 1887 May 12.  | TROTTER, WALLACE CUTHBERT...               | St. Johns, P.Q.                                     |
|               |                                            |                                                     |
| 1888 May 17.  | VAN HORNE, Sir WILLIAM C.,<br>K.C.M.G..... | C.P.R., Montreal.                                   |
|               |                                            |                                                     |
| 1892 Jan. 28. | WEDDELL, ROBERT.....                       | Trenton, Ont.                                       |
| 1894 Mar. 29. | WILSON, HARRY.....                         | 23 Montcalm St., Montreal.                          |

# STUDENTS.

(Stud. Can. Soc. C. E.)

| <i>Date of Membership.</i> | <i>Name.</i>                                | <i>Address.</i>                                        |
|----------------------------|---------------------------------------------|--------------------------------------------------------|
| 1887 Jan. 20.              | ADDIE, G. K., B.A.Sc.....                   | Sherbrooke, P.Q.                                       |
| 1893 Apr. 20.              | ALISON, THOMAS H., B.A.Sc.....              | 52 Murray St., Toronto.                                |
| 1893 Apr. 20.              | AMOS, EDOUARD C.....                        | 31 Drummond St., Montreal.                             |
| 1895 May 23.               | ANGUS, WILLIAM F.....                       | 240 Drummond St., Montreal.                            |
| 1887 May 12.               | ANTLIFF JOHN HOLDEN, M.A.Sc.,<br>D.T.S..... | Technical Branch Dept. Indian<br>Affairs, Ottawa.      |
| 1890 May 22.               | ARCAND, O.....                              | Care of Mr. Loignon, 24 St.<br>Augustin St., Montreal. |
| 1888 May 17.               | ARCHIBALD, CYRUS W.....                     | I.C.R., Truro, N.S.                                    |
| 1894 Oct. 11.              | ARMSTRONG, CHAS. J.....                     | 261 Peel St., Montreal.                                |
| 1895 May 23.               | BAKER, HUGH C.....                          | Perkin's Mills, P.Q.                                   |
| 1891 Oct. 8.               | BEATTY, HERBERT JOHN.....                   | Pembroke, Ont.                                         |
| 1896 Mar. 12.              | BISHOP, WILLIAM I.....                      | 345 Charlevoix St., Montreal.                          |
| 1894 Mar. 29.              | BLACK, JOHN D.....                          | 100 Union Ave., Montreal.                              |
| 1896 Dec. 17.              | BOWMAN, DAVID.....                          | Berlin, Ont.                                           |
| 1890 Apr. 10.              | BOWMAN, F. M.....                           | Care of Riter & Conley,<br>Alleghany, Penn.            |
| 1887 Feb. 24.              | BROWN, D. B.....                            | Cornwall, Ont.                                         |
| 1887 Feb. 24.              | BUCKE, M. A.....                            | Asylum, London, Ont.                                   |
| 1894 Mar. 29.              | CARTER, WM. FRANCIS, B.A.Sc.....            | 123 Park Ave., Montreal.                               |
| 1887 Feb. 24.              | CLEMENT, W. A.....                          | City Engineer's Office,<br>Toronto, O.                 |
| 1887 Feb. 24.              | Colquhoun, W. E.....                        |                                                        |
| 1889 Mar. 14.              | COPELAND, L.B., B.A.Sc.....                 | 51 St. Mark St., Montreal.                             |
| 1889 Dec. 19.              | COSTIGAN, J. S., B.A.Sc.....                | Glasgow & Asbestos Co., Ltd.,<br>Black Lake, P.Q.      |
| 1892 Mar. 11.              | COURTNEY, REGINALD MORTIMER....             | J. M. Courtney, Dept. Minister<br>of Finance, Ottawa.  |
| 1888 Mar. 22.              | COVERT, J. S.....                           | King Bridge Co., Cleveland,<br>Ohio.                   |
| †1892 Jan. 28.             | CREIGHTON, FRANK ALERO.....                 | Dartmouth, N.S.                                        |

*List of Students of*

- |                |                                  |                                                          |
|----------------|----------------------------------|----------------------------------------------------------|
| †1894 Mar. 29. | DENIS, THÉOPHILE.....            | McGill University, Montreal.                             |
| 1888 Jan. 6.   | DENISON, W. S., B.A.Sc....       | Denison's Mills, P.Q.                                    |
| 1895 May 23.   | DIBBLEE, HARRIE MILES.....       | Portland and Rumford Falls Ry.,<br>Rumford Falls, Maine. |
| 1891 April 9.  | DOMVILLE, JAS. WM.....           | 9 Drummond St., Montreal.                                |
| 1890 May 22.   | DOUGLAS, JAS. ATKINSON....       | Lighting Dept. Royal Electric<br>Co., Montreal.          |
| 1893 May 18.   | DRAPER, WILLIAM N.....           | New Westminster, B.C.                                    |
| 1891 May 21.   | DUFF, WM. ARCHIBALD, B.A.Sc..... | McGill University, Montreal.                             |
| 1894 Mar. 29.  | DUFRESNE, ALEX. R.....           | Dept. Rys. & Canals, Royal<br>Insurance Bdg., Montreal.  |
| †1894 Mar. 29. | DYER, WM. E. L., B.A.Sc.....     | 258 Wood Ave., Montreal.                                 |
|                |                                  |                                                          |
| 1888 Dec. 6.   | ELLACOTT, C. H., B.A.Sc.....     | P.O. Box 451, Rossland, B.C.                             |
|                |                                  |                                                          |
| 1889 Dec. 19.  | FAIRMAN, F. W.....               | Temple Building,<br>St. James St., Montreal.             |
| 1887 Nov. 4.   | FELLOWES, F. L.....              | Cor. Keele and Dundas Sts.,<br>Toronto Junction, Ont.    |
| 1887 Jan. 27.  | FORNERET, V. F. W., B.A.Sc.....  | Berthier, P.Q.                                           |
|                |                                  |                                                          |
| 1887 Feb. 24.  | GIBBONS, JAMES.....              | Renfrew, Ont.                                            |
| 1889 May 23.   | GOODWIN, E. P.....               | Baie Verte, N.B.                                         |
| 1894 Mar. 29.  | GOODWIN, JAS. B.....             | Grimsby, Ont.                                            |
| 1892 April 8.  | GREENBERG, LOUIS, B.A.Sc.....    | 268 Bleary St., Montreal.                                |
| 1895 May 23.   | GREIG, ALEX. R.....              | Can. Atlantic. Ry., Ottawa.                              |
|                |                                  |                                                          |
| 1896 Dec. 17.  | HANDY, EDWARD FRANCIS T.....     | Emsdale, Ont.                                            |
| †1894 Jan. 4.  | HARE, GEORGE G.....              | Tidal Survey Office,<br>Marine Dept., Ottawa.            |
| 1894 Mar. 29.  | HART, OROBIO C., B.A.Sc.....     | Maiden, Mont.                                            |
| 1888 Dec. 6.   | HAWKINS, A. H., B.A.Sc.....      | Box 404, Vancouver, B.C.                                 |
| 1895 Dec. 19.  | HOLMES, ARCH. R.....             | Chief Engr's. Office I. C. Ry.,<br>Moncton, N.B.         |
| 1887 Apr. 14.  | HUNTER, R. E.....                | 644 St. Denis St., Montreal.                             |
| 1891 Oct. 8.   | HUTCHEON, JAMES.....             | Guelph, Ont.                                             |



- 1887 Feb. 24. IRVINE, JOHN.....Harriston, Ont.
- 1895 Dec. 19. JERMYN, FRED. L.....770 St. Denis St., Montreal.
- 1894 Oct. 11. JOHNSON, SYDNEY M., B.A.Sc.....Care of Davis & Van Buskirk,  
Civil Engineers, Stratford,  
Ont.
- 1894 Jan. 4. KILLALY, HAMILTON M., B.A....Caledonia Springs, Ont.
- 1891 Nov. 19. KINNEAR, GUY STANHOPE.....Sussex Vale, N.B.
- 1889 Feb. 14. LAFONTAINE, EMERY.....97 St. James St., Montreal.
- 1893 May 18. LAIDLAW, JAMES T.....Cripple Creek, Col.
- 1889 Dec. 19. LAMBERT, FRANK, B.A.Sc.....University of Zurich,  
Zurich, Germany.
- 1890 May 22. LANE, ANDREW.... ..Maryland Steel Co.,  
Sparrows Point, Md.
- 1894 Mar. 29. LARMONTH, JOHN H., B.A.Sc.....Laurie Eng. Works, Montreal.
- 1887 Feb. 24. LEASK, JOHN L.....187 Crawford St., Toronto.
- 1896 Mar. 12. LINDSAY, HAMILTON .....Regent St., Kingston, Ont.
- 1887 Feb. 24. LOIGNON, A.....360 Seigneurs St., Montreal.
- 1887 Feb. 24. LOIGNON, E.....360 Seigneurs St., Montreal.
- 1894 Mar. 29. LONERGAN, GERALD J., B.A.Sc....Buckingham, Que.
- +1890 Apr. 10. LORDLY, H. R.....35 Dock St., St. John, N.B.
- 1887 June 25. *Lough, William H.*.....
- 1895 Feb. 28. McENTEE, BERNARD, B.A.Sc.....28 Queen St. E, Toronto.
- 1887 Jan. 20. McFARLANE, M. C., B.A.Sc.....Almonte, Ont.
- 1895 May 23. MCGILLIVRAY, ARCH .....New Westminster, B.C.
- 1887 Apr. 28. MCGREGOR, J. H.....5 Sisters Block, Victoria, B.C.
- 1890 Nov. 20. MCGREGOR, J. MURRAY, B.A.Sc..59 McClure St., Victoria, B.C.
- 1887 Jan. 20. *McKenzie, C. P.*.....
- 1887 Jan. 20. McLENNAN, M. J., B.A.Sc.....Williamstown, Ont.
- 1894 Mar. 29. McPHERSON, ARCH. J.....Box 610, Galt, Ont.

- 1896 June 18. MACDONALD, WM. ANGUS .....16 Compton Ave.,  
Halifax, N.S.
- 1894 Mar. 29. MACKAY, HENRY M., B.A., B.A.Sc. Tidal Survey Office, Marine  
Dept., Ottawa.
- 1895 Dec. 19. MATHESON, ARTHUR J. .... Cascades Point, Que.
- 1895 Dec. 19. MAUNSELL, E. ST. JOHN ..... Fredericton, N.B.
- 1887 Feb. 24. MILL, F. X. .... Glenburnie, Maria, P.Q.
- 1894 Mar. 29. MITCHELL, CHAS. H. .... Niagara Falls, Ont.
- 1889 Mar. 14. *Mitchell, Geo* .....
- 1895 May 23. MOODIE, KENNETH, B.A.Sc. ....2943 Calumet Ave.,  
Chicago, Ill.
- 1887 Jan. 20. MOONEY, G. W., B.A.Sc. .... Ausable, N.Y.
- 1896 Dec. 17. MORRISON, WM. PETER .... Box 338, Halifax, N.S.
- 1894 Mar. 29. MUDGE, ARTHUR L., B.A.Sc. .... Can. Gen. Electric Co.,  
Peterboro, Ont.
- 1889 Feb. 14. MURPHY, CORNELIUS JOS. .... Halifax, N.S.
- 1894 Mar. 29. OGILVIE, WM. M. .... Cummings Bridge, Ont.
- 1894 Mar. 29. PARENT, PAUL E. .... City Hall, Montreal.
- 1887 Apr. 28. RAMSAY, H. M., B.A.Sc. .... M.E. Office, P.R.R. Altoona,  
Pa.
- 1890 May 22. RANKIN, J., JUN., B.A.Sc. .... 838 Dorchester St., Montreal.
- 1887 Jan. 20. REDPATH, P. W., B.A.Sc. .... 1065 Sherbrooke St., Montreal.
- 1887 Jan. 20. REED, C. B., B.A.Sc. .... 4130 Lake Ave., Chicago, Ill.
- 1894 Dec. 20. REID, ROBT. G., JUN. .... 275 Drummond St., Montreal.
- +1894 Mar. 29. REINHARDT, CARL. .... 133 Crescent St., Montreal.
- 1896 June 18. RENWICK, HALIBURTON PAUL. .... 90 Calboro Bay Rd.,  
Victoria, B.C.
- 1892 Mar 11. ROBERT, ALPH. M. A., B.A.Sc. .... 163 St. Patrick St., Ottawa.
- 1895 May 23. ROBINS, SAMPSON P., B.A.Sc. .... Linotype Co., Bleury St.,  
Montreal.
- 1895 May 23. ROGERS, ROBT. P. .... Grafton, Ont.
- 1891 Nov. 19. ROSE, GEO. GILDERSLEEVE. .... Morrisburgh, Ont.
- 1888 Apr 19. ROSS, D. A. .... 112 Winchester St., Toronto.
- 1893 May 18. RUSSEL, ROBERT K. .... Pembroke, Ont.
- 1888 Feb. 9. RUSSELL, W. .... Pembroke, Ont.
- 1889 Mar. 14. RUTHERFORD, F. .... Pueblo S. & F. Co.,  
Pueblo, Col.

- 1895 May 23. SCAMMELL, J. KIMBALL, B.A.Sc..27 Creighton St.,  
North Cambridge.
- 1896 Jan. 9. SCOTT, WALTER MOFFAT, B.A.Sc.Box 352, Charlottetown, P.E.I.
- 1891 Jan. 29. SHERATON, ROBT. LEONARD .....No. 2 Pelham Place,  
Boston, Mass.
- 1887 Feb. 24. SHILLINGLAW, W. H.....Box 182, Brandon, Man.
- 1890 May 20. *Smart, John Alder*.....
- +1894 Dec. 20. SMITH, ANGUS.....Ridgetown, Ont.
- +1888 Feb. 9. SMITH, G. S., B.A.Sc.....Ball Engine Co., Newark, N.J.
- 1893 Apr. 20. SPÉNARD, JOS. L.....Mastar, Que.
- 1893 May 18. SQUIRE, RICHARD H., B.A.Sc....Box 167, Brantford, Ont.
- 1890 Nov. 20. STEVENSON, JAS. ALBERT, B.A.Sc.Care of A. P. Gardiner, 550  
Pearl St., New York, N.Y
- 1892 Mar. 11. STIFF, HENRY CHAS.....Johnson Co., Johnstown, Penn.
- 1887 Dec. 1. STRONG, A. W., B.A.Sc.....High School, Montreal.
- 1888 Mar. 22. STUART, H. B., B.A.Sc.....10 Hutchison St, Montreal.
- 1894 Oct. 11. SULLIVAN, EDWARD A.....Sault Ste. Marie, Ont.
- 1887 Jan. 20. TAYLOR, D., B.A.Sc.....1041-42 Lumber Exchange,  
Minneapolis, Minn.
- 1894 Jan. 4. THORNTON, KENNETH B.....42 Mackay St., Montreal.
- +1890 Nov. 20. TIGHE, JAMES, B.A.Sc....City Hall, Holyoke, Mass.
- 1889 Jan. 3. TRENBLY, THOMAS.....Sherbrooke, P.Q.
- 1890 Nov.20. WAINWRIGHT, JAS. GEO. R., B.A.Sc..St. Andrews East, P.Q.
- 1891 Nov.16. WALLACE, JOHN WM. MARTIN....Notre Dame de Lévis, P.Q.
- 1890 Apr.10. WIGGINS, T. H.....Cornwall, Ont.
- 1887 Feb. 24. WILLIAMS, M. L., B.A.Sc.....Hamilton Chambers,  
17 St. John St., Montreal.
- 1893 Apr. 20. WILKIE, OCTAVIUS B. N.....Langley, B.C.
- 1896 June 18. WILKIN, F. A.....Rossland, B.C.
- 1893 May 18. WONFOLD, CUTHBERT C.....P.O. Box 337, Victoria, B.C.





